A. G. Contract No. KR89-2128TRD
ECS File: JPA-89-115
Phoenix File: 65760
Project: Drainage Maintenance Agreement
Section: Phoenix

INTERGOVERNMENTAL AGREEMENT
BETWEEN
THE STATE OF ARIZONA
AND
THE CITY OF PHOENIX

THIS AGREEMENT is entered into 20 August, 1993, pursuant to Arizona Revised Statutes, Sections 11-951 through 11-954, as amended, between the STATE OF ARIZONA, acting by and through its DEPARTMENT OF TRANSPORTATION (the "State") and the CITY OF PHOENIX, acting by and through its CITY COUNCIL (the "City").

I. RECITALS

1. The State is empowered by Arizona Revised Statutes Section 28-108 to enter into this agreement and has by resolution, a copy of which is attached hereto and made a part hereof, resolved to enter into this agreement and has delegated to the undersigned the authority to execute this agreement on behalf of the State.

2. The City is empowered by Arizona Revised Statutes Section 48-572 and the City Charter, Chapter 2, Section 2 to enter into this agreement and has by resolution, a copy of which is attached hereto and made a part hereof, resolved to enter into this agreement and has authorized the undersigned to execute this agreement on behalf of the City.

3. It is to the mutual benefit of the State and the City to enter into an agreement specifying their respective storm drainage maintenance responsibilities concerning certain State highway routes which are encompassed within the City's system of streets and which form necessary and convenient links in the State Highway System.

4. The Master Maintenance Agreement between the State and the City dated March 26, 1991 (JPA 90-19, Phoenix #58063) shall augment this agreement, where appicable. Portions of this agreement which conflict with the Master Maintenance Agreement may be severed without affecting the remaining conditions of this agreement.

NO. 17948
FILED WITH SECRETARY OF STATE
Date Filed 08/20/93
Richard Mahoney
Secretary of State
By Vicky V. Groenewold

5. The portions of the State Highway System within the City covered by this agreement are as follows and as shown in the attached figures:

SR 51 - known as the Squaw Peak Parkway, beginning at the back of the exit gore between WB I-10 and SR 51 (M.P. 0.00 = 33+51 of Lane S-N = Station 7763+62 of WB I-10) and ending at the south curb line of McDowell Road (M.P. 0.00 = Station 4+31 of Lane S-N).

SR 202L - known and the Red Mountain Freeway, beginning at the back of the exit gore between EB I-10 and SR 202L (M.P. 0.00 = Station 12+23 of Lane W-E = Station 7736+50 of EB I-10) and ending at the west curb line of 24th Street (M.P. 0.73 = Station 999+57 of SR 202L).

I-10 - known as the Papago (Segments A through E) and the Maricopa (Segments E and F) Freeways, beginning at 55th Avenue (M.P. 139.14 = Station 7340+00 of the I-10 median centerline) and ending to the east at a point approximately 135 feet east of the 40th Street centerline (Station 8023+60). The ending limits extend back to the west along I-17 to the 16th Street centerline (Station 187+49).

I-17 - known as the Black Canyon Freeway, Segment B, beginning at a point approximately 230 feet south of the Southern Pacific R.R. (M.P. 199.29 = Station 109+70 of the I-17 median centerline) and ending at the milepost marker north of Thomas Road (M.P. 202.00 = Station 252+58 of I-17).

THEREFORE, in consideration of the mutual agreements expressed herein, it is agreed as follows:

II. SCOPE OF WORK

1. The State and the City agree to the following:

a. Maintenance of all drainage facilities will be the responsibility of the State and the City as shown on the attached exhibits. In concept, control of access (fencing, walls, etc.) is the line of delineation between the State the City maintenance responsibilities. The State will maintain the

drainage facility within the State's control of access and the City will maintain the drainage facilities outside of State's control of access. This maintenance will include the removal of debris and sediment.

b. The City will provide water to the State, at the State's expense, as required for its incidental use in its drainage maintenance procedures.

c. The City will provide to the State accessible routes, as currently constructed, to storm drainage facilities and appurtenant components outside of the State's control of access but within the right of way area for all routine maintenance operations. The City will grant a permit to the State on an incidental basis to maintain the City's facilities where such activities would benefit the project and is in the best interest of the parties hereto.

d. The State will provide the City accessible routes to storm drainage facilities and appurtenant components within the control of access for all routine maintenance operations.

e. Maintenance of the North, West and East Tunnels and their accessory facilities will be the responsibility of the State. Maintenance of the following West Tunnel drop shafts will be the responsibility of the City:

- Maricopa Freeway - Grant Street
- Fillmore Street - Tonto Street

f. Maintenance of catch basins, manholes and storm drains built for the State Highway System that are "replacements" for previously existing City catch basins, manholes, and storm drains, will be the responsibility of the City. These items are shown on the attached exhibits as the City's responsibility.

g. All maintenance work performed by the City and/or the State shall be conducted in a manner to minimize traffic congestion and interference with through traffic. All traffic control will meet the requirements of the Arizona Department of Transportation's "Traffic Control Manual."

III. MISCELLANEOUS PROVISIONS

1. This agreement shall remain in force and effect until one or both parties provide thirty (30) days notice of cancellation. The terms, conditions, and provisions of the agreement may be modified upon mutual consent of both parties by amendment of this agreement.

2. This agreement shall become effective upon filing with the Secretary of State.

3. This agreement may be cancelled in accordance with Arizona Revised Statutes Section 38-511.

4. The provisions of Arizona Revised Statutes Section 35-214 are applicable to this contract.

5. In the event of any controversy which may arise out of this agreement, the parties hereto agree to abide by required arbitration as is set forth for public works contracts in Arizona Revised Statutes Section 12-1518.

6. All notices or demands upon any party to this agreement shall be in writing and shall be delivered in person or sent by mail addressed as follows:

Arizona Department of Transportation
Joint Project Administration
205 South 17 Avenue, Mail Drop 616E
Phoenix, AZ 85007

City of Phoenix
Street Transportation Department
125 E. Washington
Phoenix, Arizona 85004

7. Attached hereto and incorporated herein is the written determination of each party's legal counsel that the parties are authorized under the laws of this state to enter into this agreement and that the agreement is in proper form.

IN WITNESS WHEREOF, the parties have executed this agreement the day and year first above written.

CITY OF PHOENIX, a Municipal Corporation, Frank Fairbanks City Manager

By _____
JAMES H. MATTESON, P.E.
Street Transportation Director

STATE OF ARIZONA
Department of Transportation

By _____
ROBERT P. MICKELSON, P.E.
Deputy State Engineer

Attest

By _____
VICKY MIEL, City Clerk

doc.120
03JUN93

65760

DRAINAGE

MAINTENANCE EXHIBIT

I-10 Segment A

55th Avenue to 27th Avenue

This exhibit defines the areas of maintenance responsibility for the Arizona Department of Transportation and the City of Phoenix. The delineated areas apply to the responsibilities for maintenance of stormwater drainage facilities.

City of Phoenix Maintained Facilities

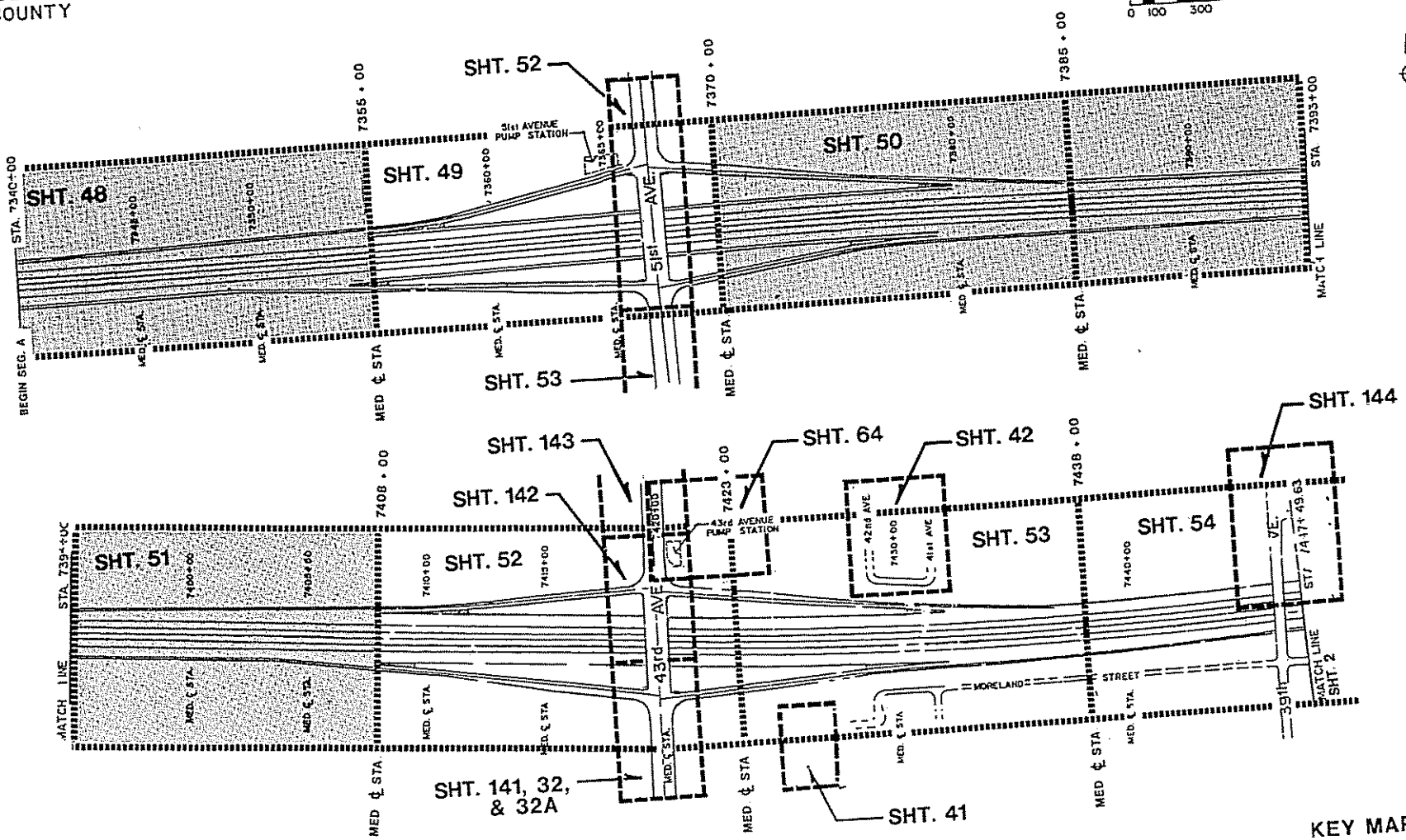
Department of Transportation Maintained Facilities

A-1

FHWA REGION	STATE	PROJECT NO	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ		1		

DATE | FOR THE CONSULTING ENGINEER
DESIGN | DRAWN | CHECKED

EHRENBERG TO PHOENIX HWY.
55TH. AVENUE TO 27TH. AVENUE
MARICOPA COUNTY



SHEETS WITH ADOT MAINTENANCE ONLY
(NOT INCLUDED IN THIS EXHIBIT)

REDUCED SIZE DO NOT SCALE

KEY MAP
STA 7340+00
TO STA 7447+00

SHT. 1

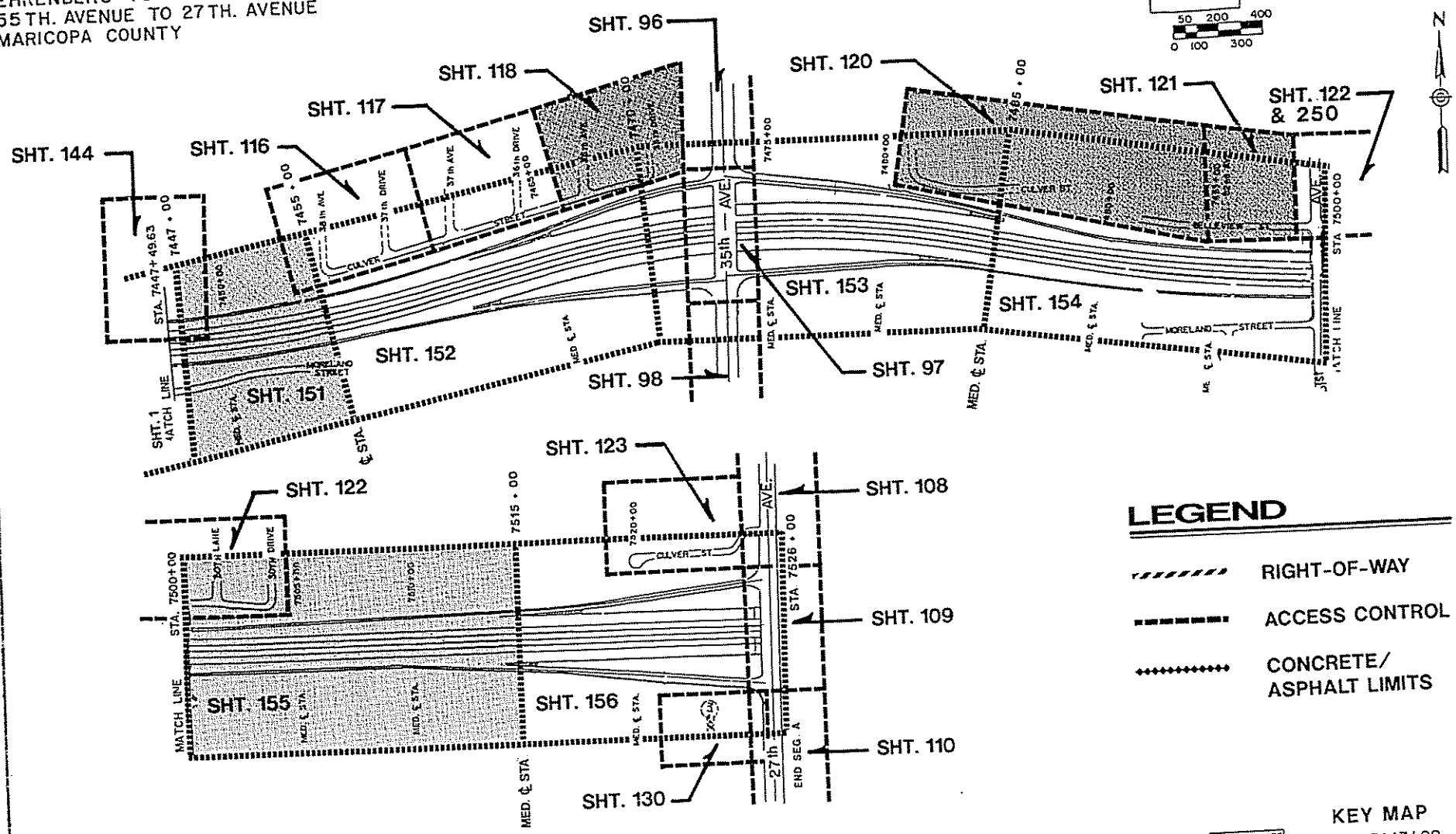
A-2

FHWA REGION	STATE	PROJECT NO	SHEET NO	TOTAL SHEETS	AS BUILT
9	AZ		2		

DATE FOR THE CONSULTING ENGINEER

DESIGN: DRAWN: CHECKED

EHRENBERG TO PHOENIX HWY.
55TH. AVENUE TO 27TH. AVENUE
MARICOPA COUNTY



LEGEND

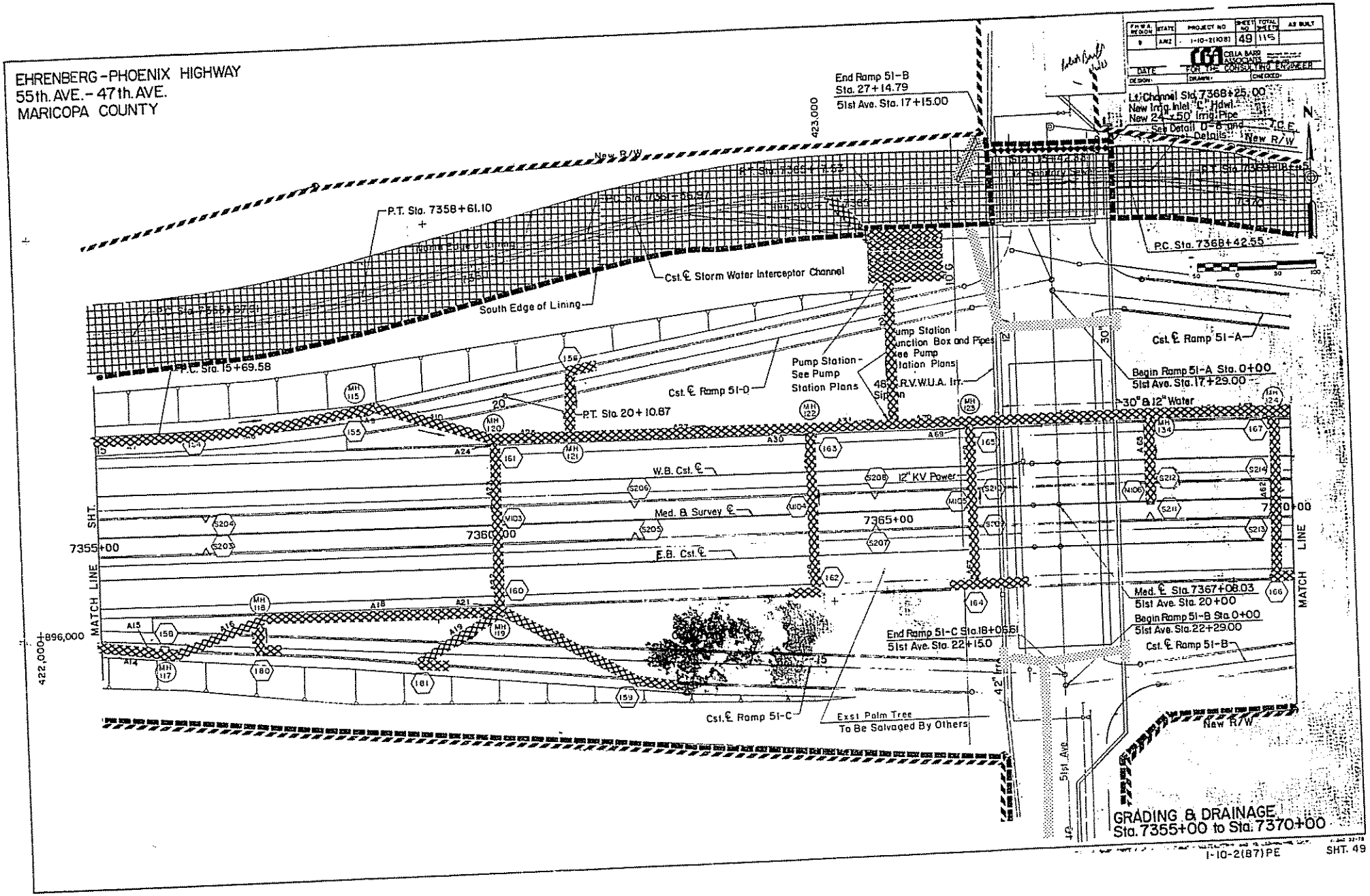
- RIGHT-OF-WAY
- ACCESS CONTROL
- CONCRETE/ ASPHALT LIMITS

REDUCED SIZE DO NOT SCALE

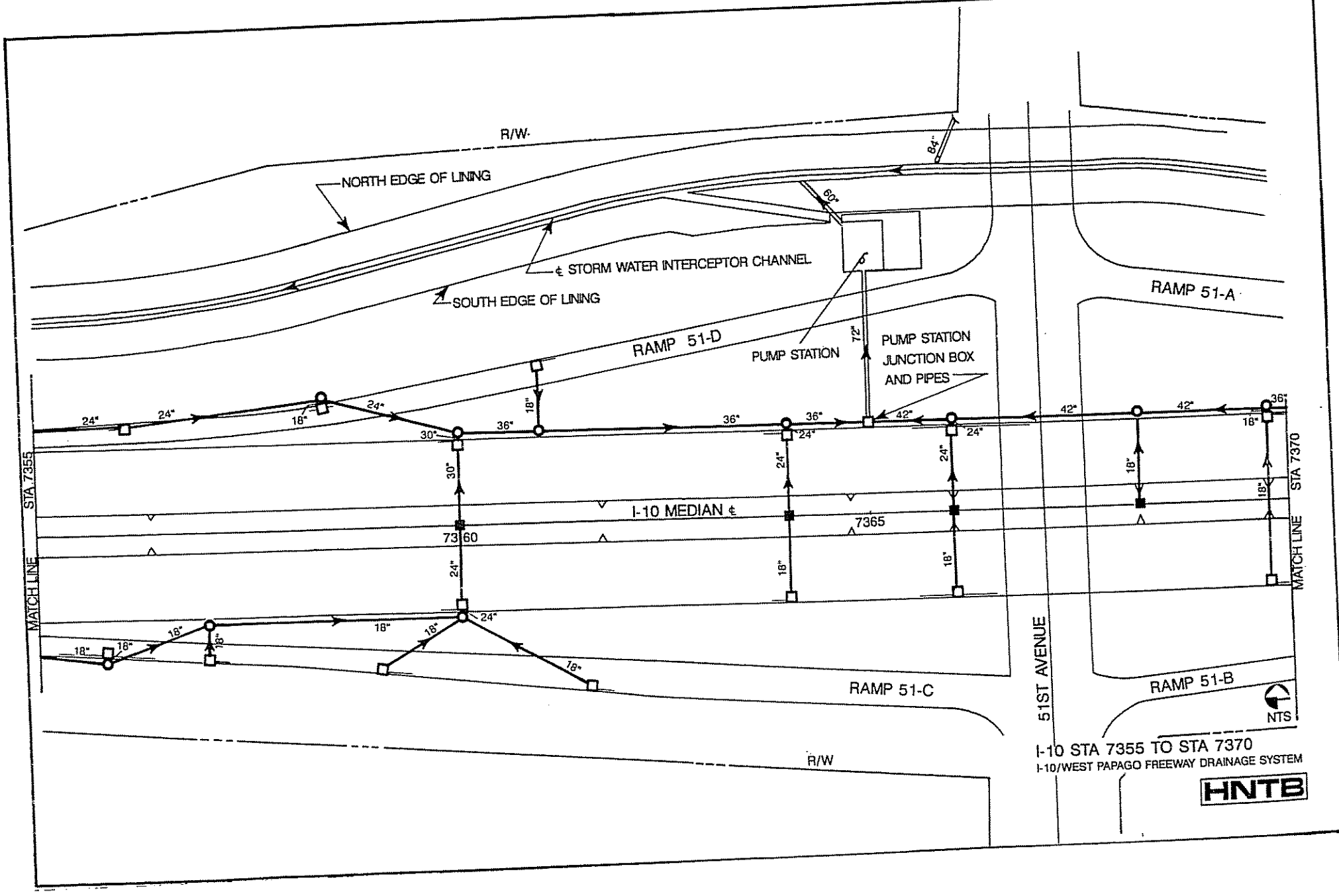
KEY MAP
STA 7447+00
TO STA 7525+00

SHT. 2

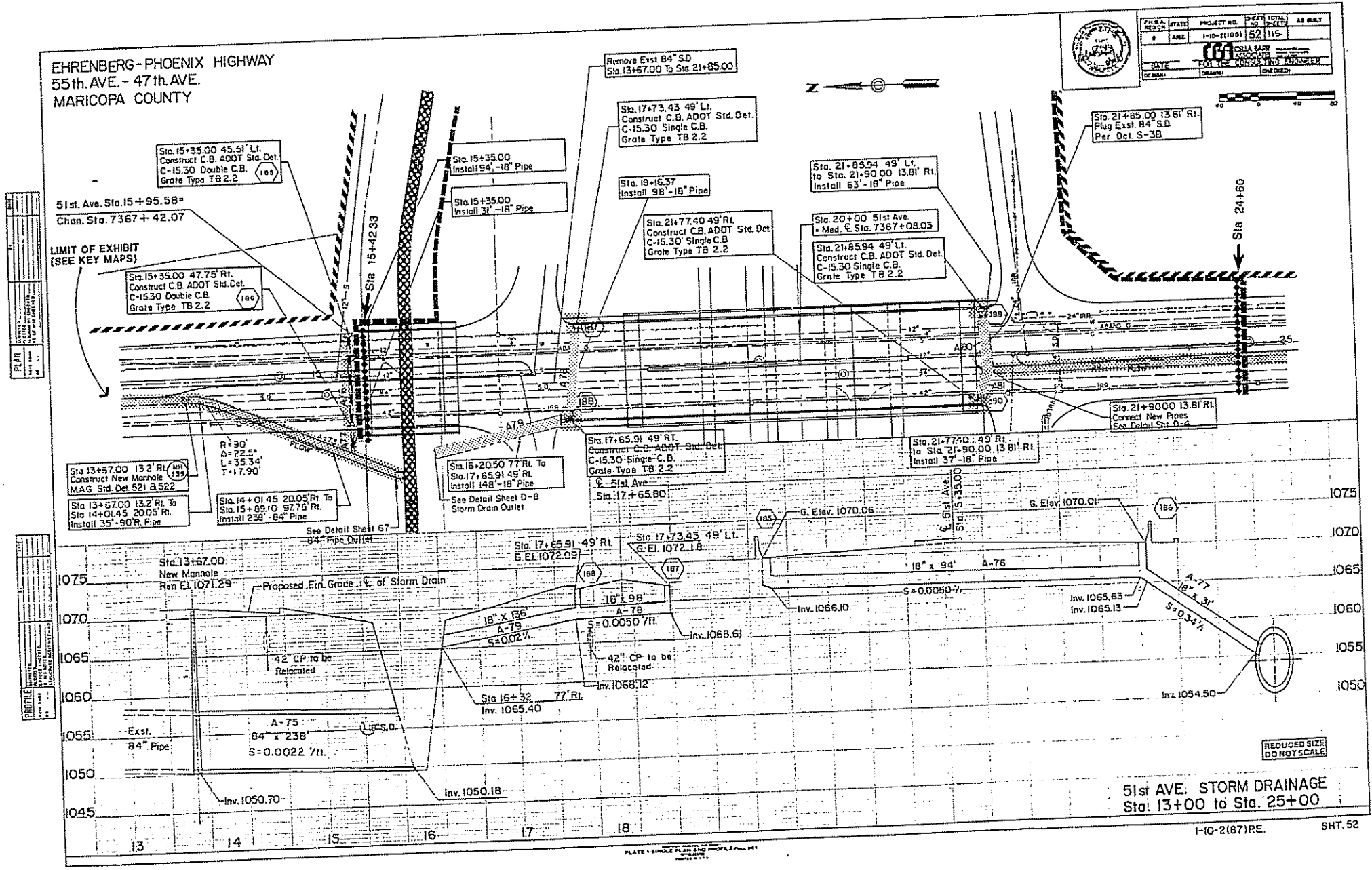
A-3

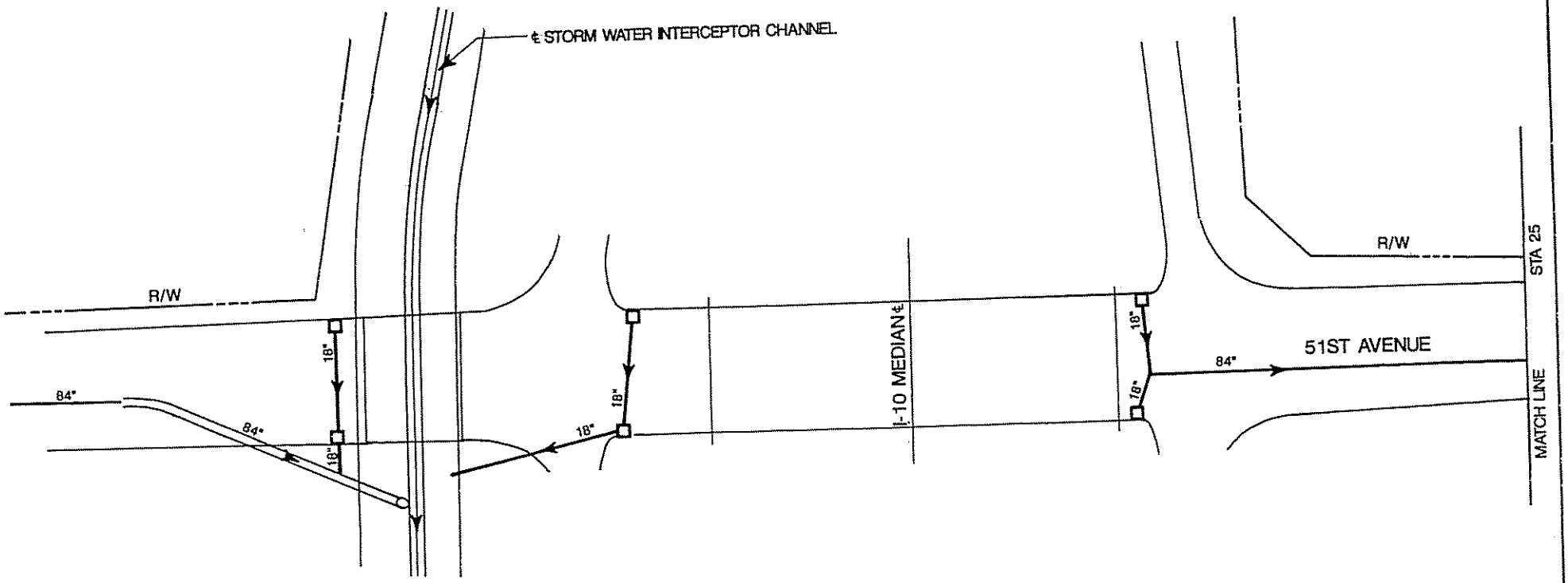


EHRENBERG-PHOENIX HIGHWAY
55th. AVE.-47th. AVE.
MARICOPA COUNTY
End Ramp 51-B
Sta. 27+14.79
51st Ave. Sta. 17+15.00
Lt. Channel Sta. 7368+25.00
New Irrig. Inlet "C" Hdwl.
New 24"x50' Irrig. Pipe
See Detail D-8 and Details
New R/W
P.T. Sta. 7358+61.10
P.C. Sta. 7368+42.55
Cst. ℄ Storm Water Interceptor Channel
South Edge of Lining
P.C. Sta. 15+69.58
Pump Station - See Pump Station Plans
Cst. ℄ Ramp 51-D
P.T. Sta. 20+10.87
Cst. ℄ Ramp 51-A
Begin Ramp 51-A Sta. 0+00
51st Ave. Sta. 17+29.00
30" & 12" Water
W.B. Cst. ℄
12" KV Power
Med. & Survey ℄
E.B. Cst. ℄
7355+00
7360+00
7365+00
7370+00
MATCH LINE SHT.
MATCH LINE
Med. ℄ Sta. 7367+08.03
51st Ave. Sta. 20+00
Begin Ramp 51-B Sta. 0+00
51st Ave. Sta. 22+29.00
End Ramp 51-C Sta. 18+05.61
51st Ave. Sta. 22+15.0
Cst. ℄ Ramp 51-B
Cst. ℄ Ramp 51-C
Exst Palm Tree
To Be Salvaged By Others
51st Ave.
423,000
422,000
896,000
GRADING & DRAINAGE
Sta. 7355+00 to Sta. 7370+00
1-10-2(87)PE
SHT. 49


R/W
NORTH EDGE OF LINING
℄ STORM WATER INTERCEPTOR CHANNEL
SOUTH EDGE OF LINING
RAMP 51-D
PUMP STATION
PUMP STATION
JUNCTION BOX
AND PIPES
RAMP 51-A
STA 7355
MATCH LINE
I-10 MEDIAN ℄
7360
7365
STA 7370
MATCH LINE
RAMP 51-C
51ST AVENUE
RAMP 51-B
R/W
NTS
I-10 STA 7355 TO STA 7370
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM
HNTB

A-5


EHRENBERG-PHOENIX HIGHWAY
55th. AVE. - 47th. AVE.
MARICOPA COUNTY
51st. Ave. Sta. 15+95.58
Chan. Sta. 7367+42.07
LIMIT OF EXHIBIT (SEE KEY MAPS)
Sta. 15+35.00 45.51' Lt. Construct C.B. ADOT Std. Det. C-15.30 Double C.B. Grate Type TB 2.2
Sta. 15+35.00 Install 94'-18" Pipe
Sta. 15+35.00 Install 31'-18" Pipe
Sta. 15+35.00 47.75' Rt. Construct C.B. ADOT Std. Det. C-15.30 Double C.B. Grate Type TB 2.2
Sta 15+42.33
Remove Exst 84" S.D. Sta. 13+67.00 To Sta. 21+85.00
Sta. 17+73.43 49' Lt. Construct C.B. ADOT Std. Det. C-15.30 Single C.B. Grate Type TB 2.2
Sta. 18+16.37 Install 98'-18" Pipe
Sta. 21+77.40 49' Rt. Construct C.B. ADOT Std. Det. C-15.30 Single C.B. Grate Type TB 2.2
Sta. 21+85.94 49' Lt. to Sta. 21+90.00 13.81' Rt. Install 63'-18" Pipe
Sta. 20+00 51st Ave. = Med. ℄ Sta. 7367+08.03
Sta. 21+85.94 49' Lt. Construct C.B. ADOT Std. Det. C-15.30 Single C.B. Grate Type TB 2.2
Sta. 21+85.00 13.81' Rt. Plug Exst. 84" S.D. Per Det. S-38
Sta 24+60
Sta. 21+90.00 13.81' Rt. Connect New Pipes See Detail Sht. D-4
Sta. 21+77.40 49' Rt. to Sta. 21+90.00 13.81' Rt. Install 37'-18" Pipe
Sta. 17+65.91 49' RT. Construct C.B. ADOT Std. Det. C-15.30 Single C.B. Grate Type TB 2.2
Sta. 16+20.50 77' Rt. To Sta. 17+65.91 49' Rt. Install 148'-18" Pipe
See Detail Sheet D-8 Storm Drain Outlet
R=90' Δ=22.5° L=35.34' T=17.90'
Sta 13+67.00 13.2' Rt. Construct New Manhole MAG Std. Det. 521 & 522
Sta 13+67.00 13.2' Rt. To Sta 14+01.45 20.05' Rt. Install 35'-90° R. Pipe
Sta. 14+01.45 20.05' Rt. To Sta. 15+89.10 97.78' Rt. Install 238'-84" Pipe
See Detail Sheet G7 84" Pipe Outlet
℄ 51st Ave. Sta. 17+65.80
G. Elev. 1070.06
G. Elev. 1070.01
℄ 51st Ave. Sta. 15+35.00
Sta. 17+65.91 49' Rt. G. El. 1072.09
Sta. 17+73.43 49' Lt. G. El. 1072.18
Sta. 13+67.00 New Manhole Rim El. 1071.29
Proposed Fin. Grade
℄ of Storm Drain
18" x 94' A-76
S=0.0050'/ft.
Inv. 1066.10
18" x 98' A-78 S=0.0050'/ft.
Inv. 1068.61
18" x 136' A-79 S=0.002'/ft.
42" CP to be Relocated
Inv. 1068.12
Sta. 16+32 77' Rt. Inv. 1065.40
Inv. 1065.63
Inv. 1065.13
A-77 18" x 31' S=0.34'/ft.
Inv. 1054.50
Exst. 84" Pipe
A-75 84" x 238' S=0.0022'/ft.
Inv. 1050.70
Inv. 1050.18
1075
1070
1065
1060
1055
1050
1045
13
14
15
16
17
18
REDUCED SIZE DO NOT SCALE
51st AVE. STORM DRAINAGE
Sta. 13+00 to Sta. 25+00
1-10-2(187)P.E.
SHT. 52



NTS

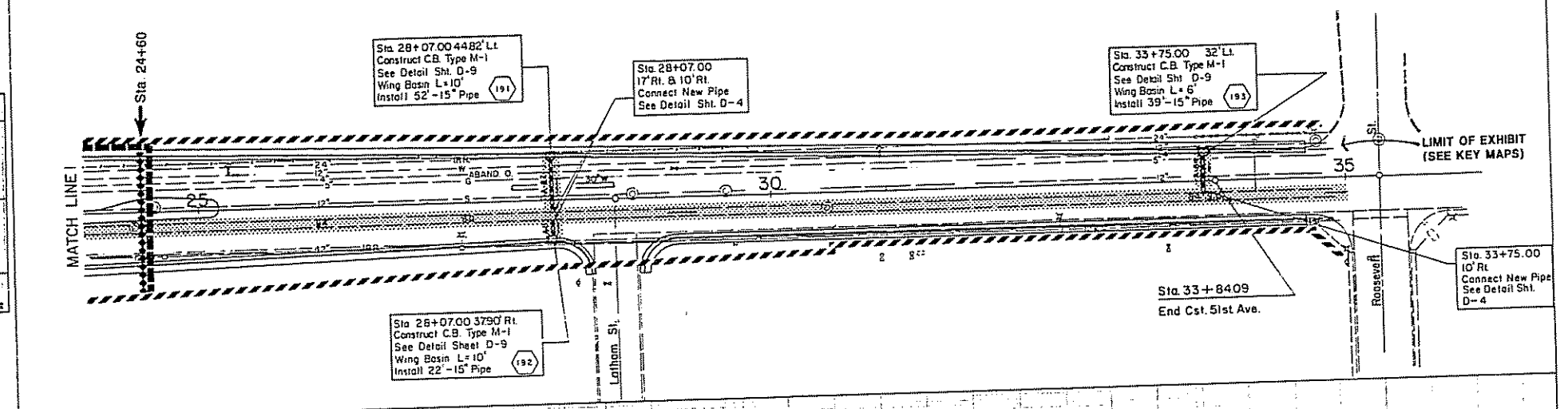
51ST AVENUE STA 13 TO STA 25

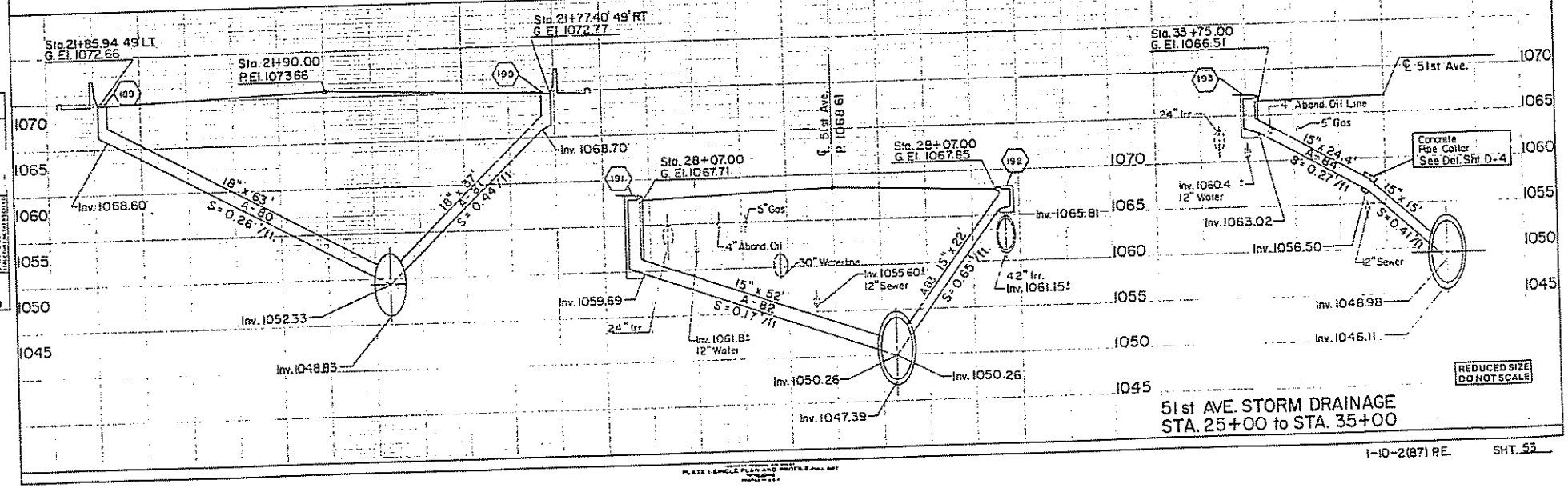
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

A-7

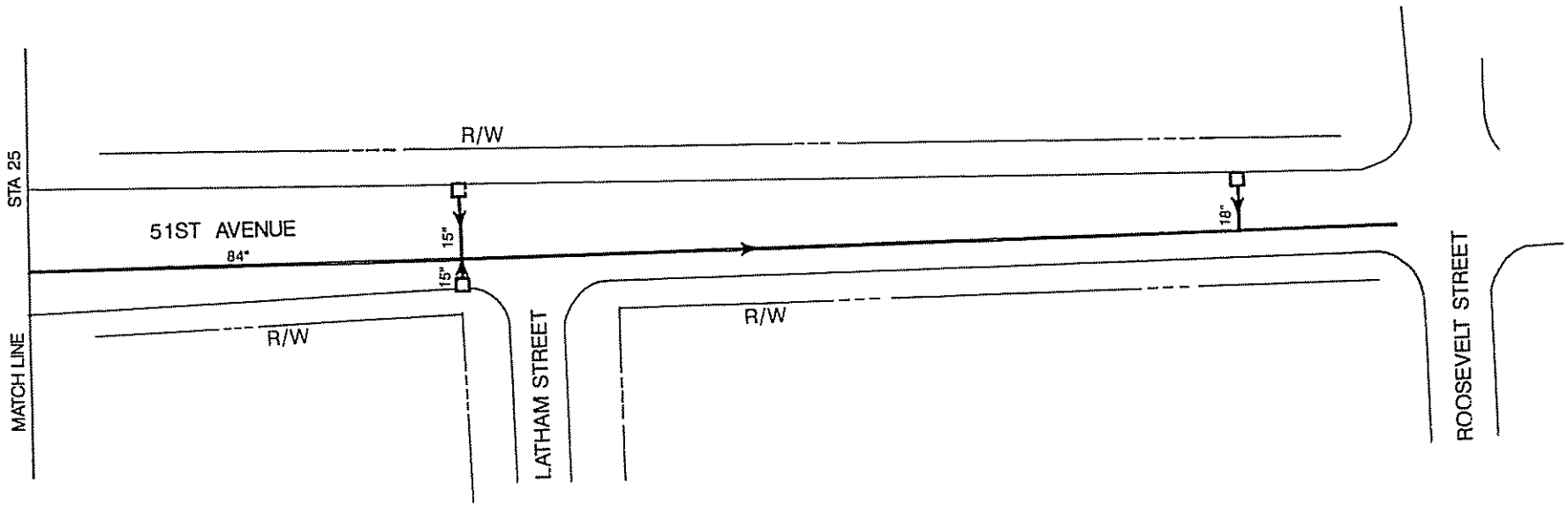
EHRENBERG-PHOENIX HIGHWAY
55th AVE.- 47th AVE.
MARICOPA COUNTY





51st AVE. STORM DRAINAGE
STA. 25+00 to STA. 35+00

1-10-2(87) P.E. SHT. 53



NTS

51ST AVENUE STA 25 TO STA 35

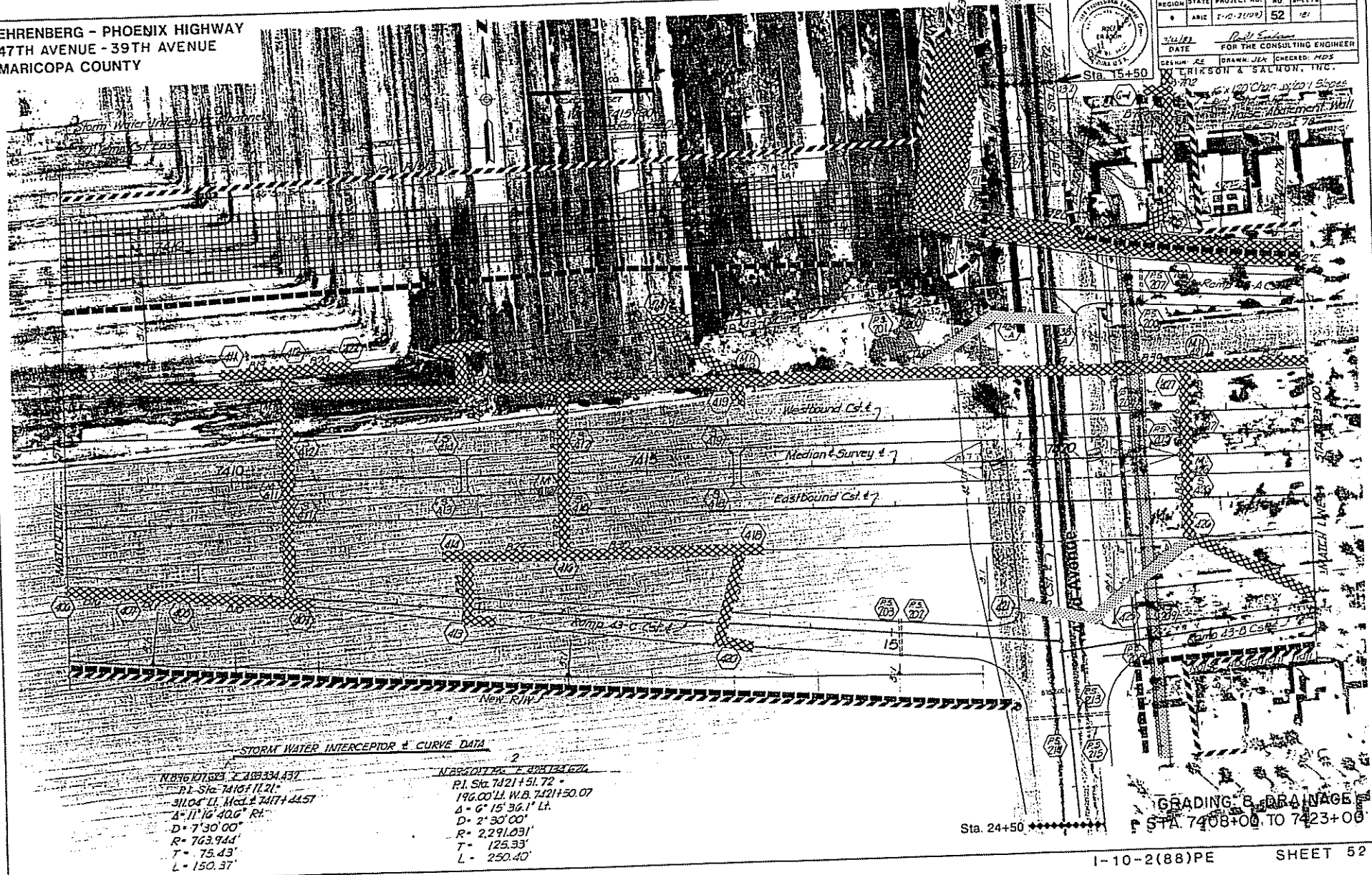
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

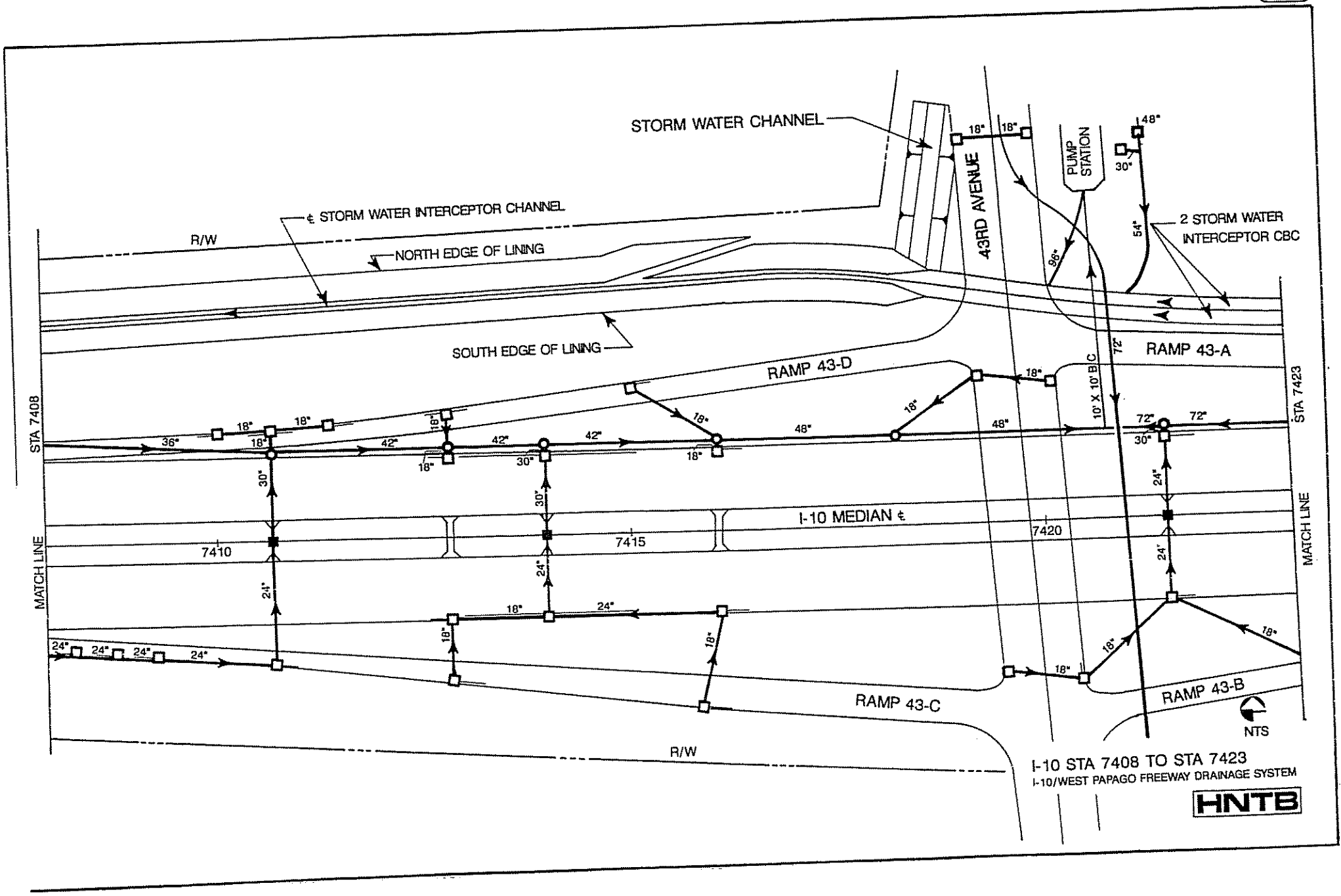
HNTB

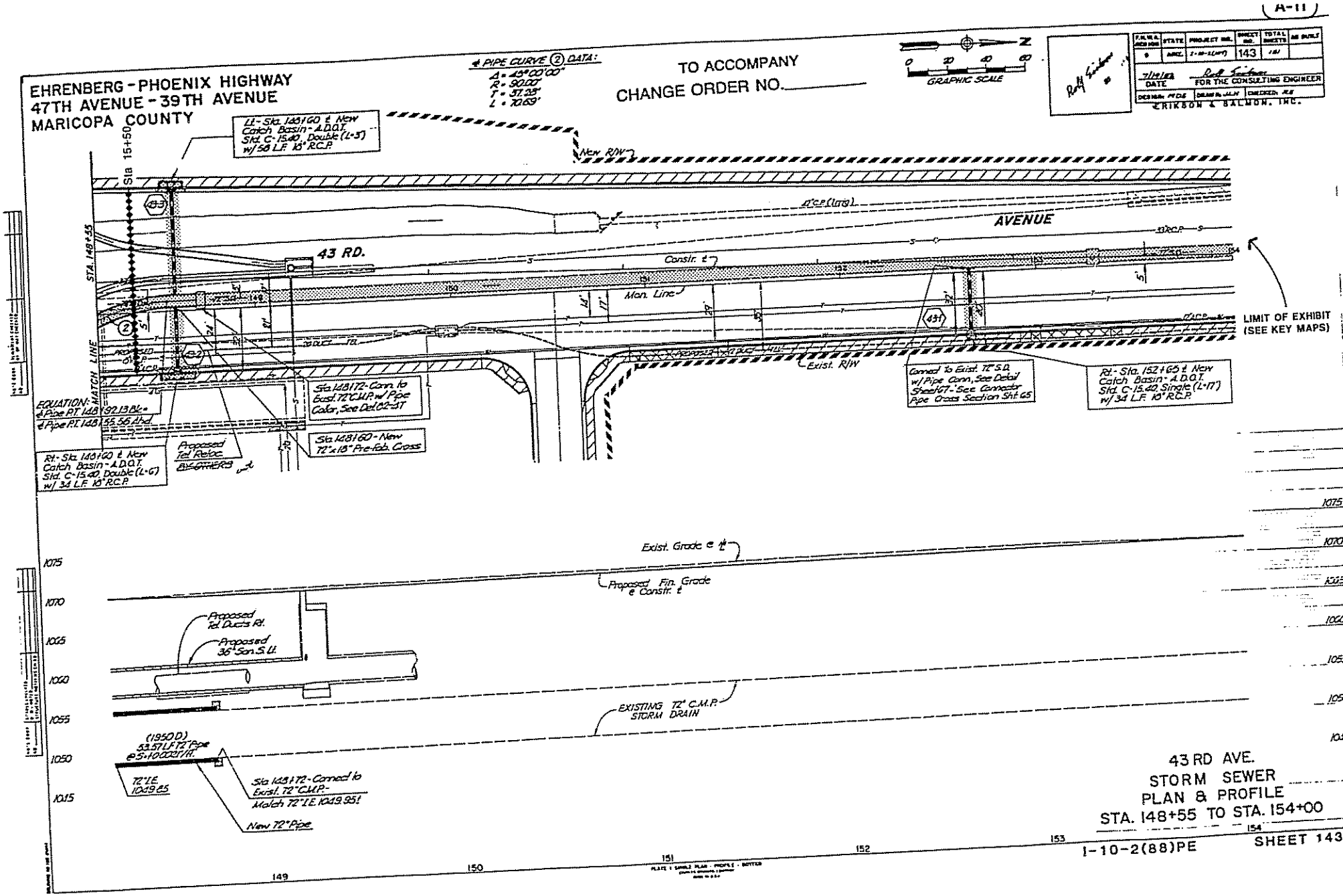
EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY

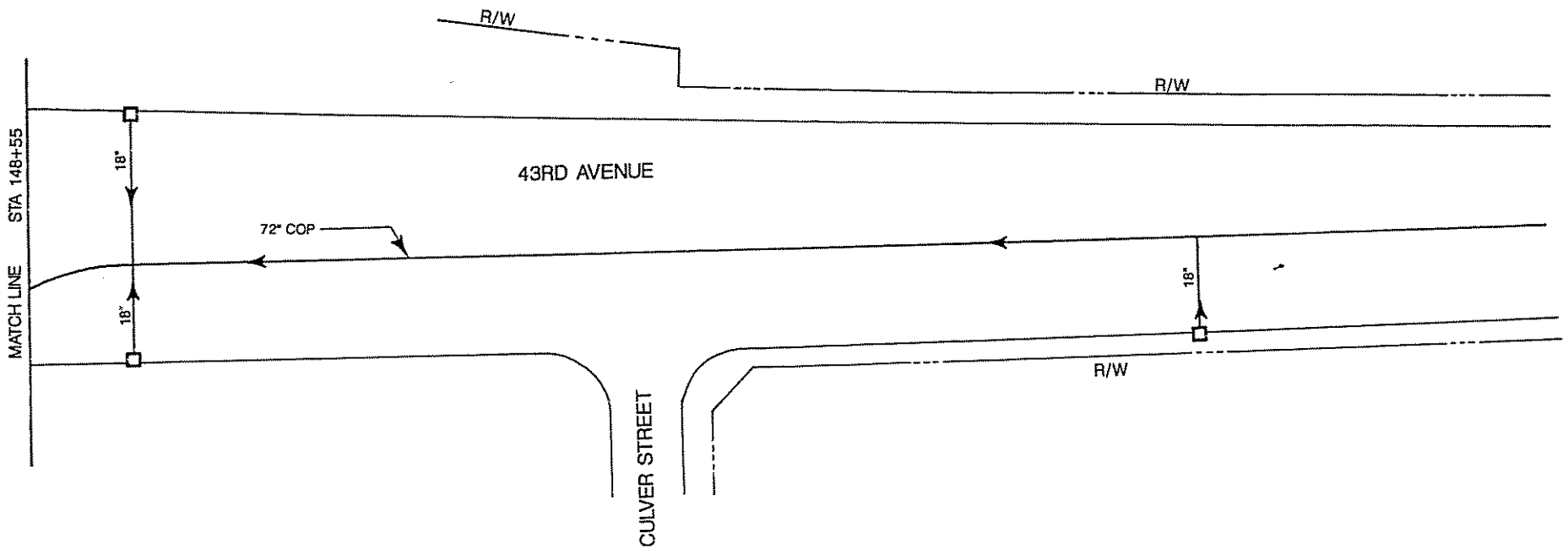
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	I-10-2(088)	52	181	

DATE — FOR THE CONSULTING ENGINEER
DESIGN: RE DRAWN: JLK CHECKED: HDS
W. ERIKSON & SALMON, INC.




STORM WATER CHANNEL
℄ STORM WATER INTERCEPTOR CHANNEL
R/W
NORTH EDGE OF LINING
SOUTH EDGE OF LINING
43RD AVENUE
PUMP STATION
2 STORM WATER INTERCEPTOR CBC
RAMP 43-A
RAMP 43-B
RAMP 43-C
RAMP 43-D
10' X 10' B/C
STA 7408
STA 7423
MATCH LINE
I-10 MEDIAN ℄
7410
7415
7420
36"
42"
48"
72"
54"
96"
30"
24"
18"
NTS
I-10 STA 7408 TO STA 7423
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM
HNTB


A-11
EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY
TO ACCOMPANY
CHANGE ORDER NO.
GRAPHIC SCALE
143
FOR THE CONSULTING ENGINEER
ERIKSON & SALMON, INC.
℄ PIPE CURVE ② DATA:
Δ = 45°00'00"
R = 90.00'
T = 37.25'
L = 70.69'
Lt.- Sta. 148+60 ℄ New Catch Basin - A.D.O.T. Std. C-15.40, Double (L=3') w/ 58 L.F. 18" R.C.P.
New R/W
Sta 15+50
STA. 148+55
MATCH LINE
43 RD.
AVENUE
Constr. ℄
Mon. Line
Exist. R/W
LIMIT OF EXHIBIT (SEE KEY MAPS)
EQUATION: ℄ Pipe P.T. 148+92.13 Blc. = ℄ Pipe P.T. 148+55.56 Ahd.
Rt.- Sta. 148+60 ℄ New Catch Basin - A.D.O.T. Std. C-15.40, Double (L=6') w/ 34 L.F. 18" R.C.P.
Proposed Tel. Reloc. BY OTHERS
Sta. 148+72 - Conn. to Exist. 72" C.M.P. w/ Pipe Color, See Det. 82-37
Sta. 148+60 - New 72" x 18" Pre-fab. Cross
Connect to Exist. 72" S.D. w/ Pipe Conn, See Detail Sheet 67 - See Connector Pipe Cross Section Sht. 65
Rt.- Sta. 152+65 ℄ New Catch Basin - A.D.O.T. Std. C-15.40, Single (L=17') w/ 34 L.F. 18" R.C.P.
Exist. Grade @ ℄
Proposed Fin. Grade @ Constr. ℄
Proposed Tel. Ducts Rt.
Proposed 36" San. S.U.
EXISTING 72" C.M.P. STORM DRAIN
(1950 D) 53.57 L.F. 72" Pipe @ S=+0.0021'/ft.
72" I.E. 1049.85
Sta. 148+72 - Connect to Exist. 72" C.M.P. - Match 72" I.E. 1049.95!
New 72" Pipe
1075
1070
1065
1060
1055
1050
1045
149
150
151
152
153
154
43 RD AVE.
STORM SEWER
PLAN & PROFILE
STA. 148+55 TO STA. 154+00
I-10-2(88)PE
SHEET 143

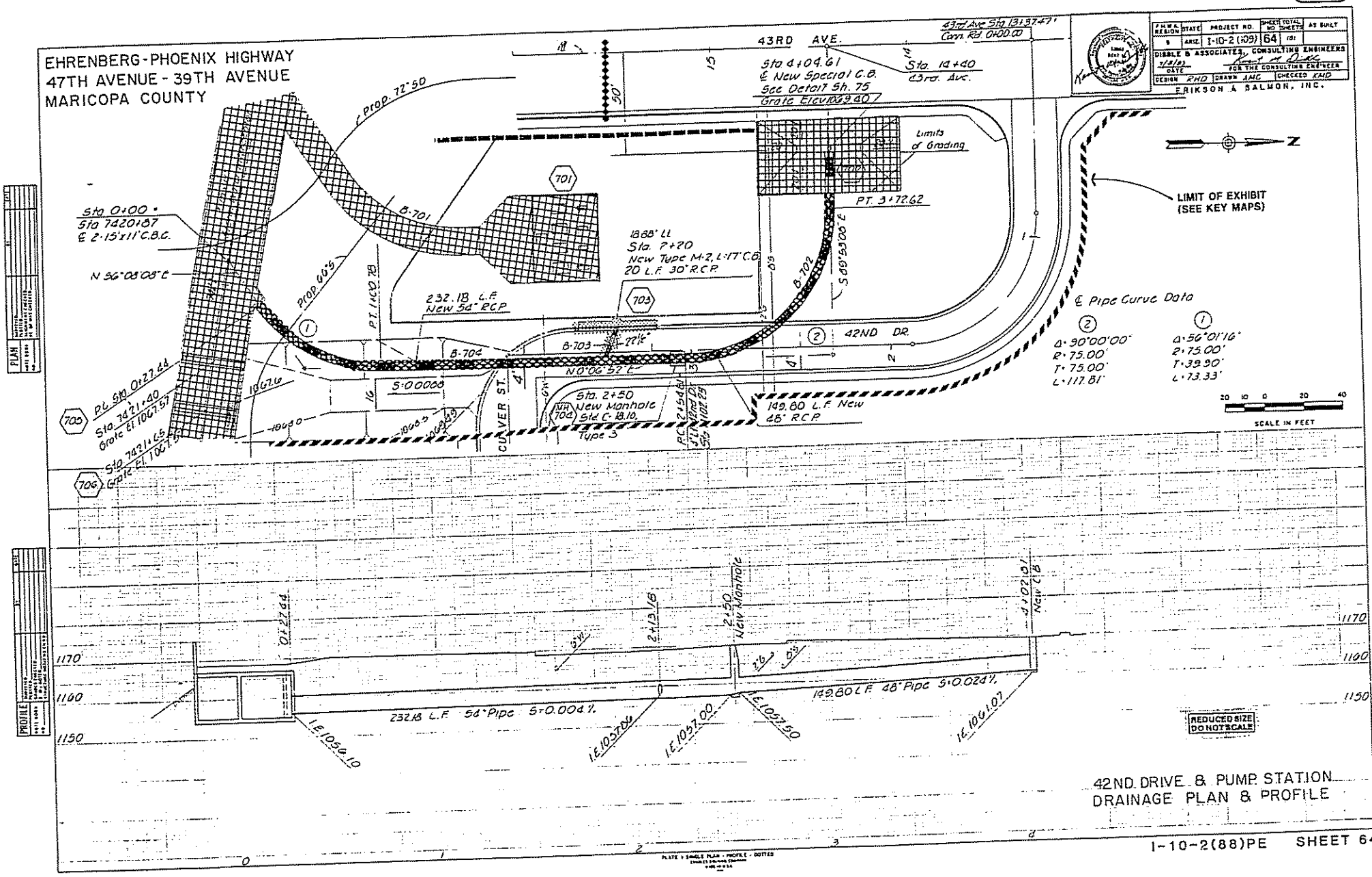


NTS

43RD AVENUE STA 148+55 TO STA 154
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

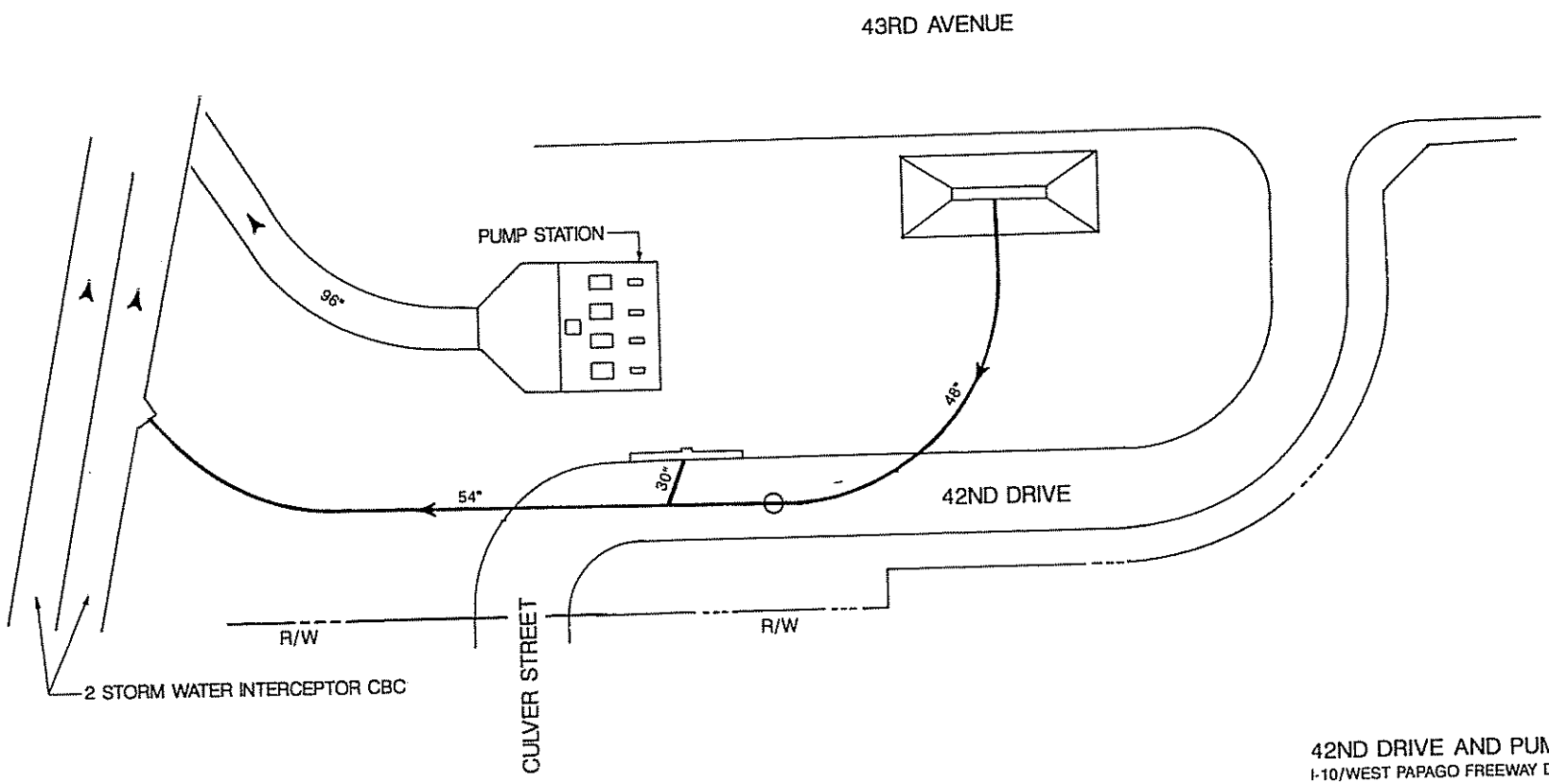
EHRENBERG-PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY



42ND DRIVE & PUMP STATION
DRAINAGE PLAN & PROFILE

FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-2 (109)	64	101	

DISBLE & ASSOCIATES, CONSULTING ENGINEERS
7/3/03 DATE
FOR THE CONSULTING ENGINEER
DESIGN PHD DRAWN AMC CHECKED KMD
ERIKSON & SALMON, INC.



NTS

42ND DRIVE AND PUMP STATION
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

A-15

EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY

GRAPHIC SCALE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-2(101)	142	181	

7/26/83 DATE — FOR THE CONSULTING ENGINEER

DESIGN: MDS DRAWN: BKF CHECKED: RE

ERIKSON & SALMON, INC.

℄ PIPE CURVE ② DATA:
Δ = 45°00'00"
R = 30.00'
T = 37.28'
L = 70.69'

43 RD.

AVENUE

STA. 143+00

STA. 148+55

MATCH LINE

Proposed 30" San S. Sewer By-Pass, See Sht. 136

Sta 147+32 - ℄ New Special SD Manl MH, Detail 02-4S

Sta 146+55 - ℄ New Special SD Manl MH, Detail 02-4R

Proposed 48" I-10 Storm Drain

Mon Line - N.0°19'47"E.

Proposed Rel Rtbc By-Smiers

10'x10' Cck Cuv (Pump Sta Inlet)

PROPOSED 26 DUCT TEL

New 72" Pipe

Proposed 72" I-10 Storm Drain

℄ 72" Pipe PC 148+12.00

℄ 72" Pipe PT 147+42.69

℄ 72" Pipe PC 148+12.45

Proposed 60" San S. See Sheet 136

Plans

Sta 146+55 - ℄ Special SD Manl MH

Sta 147+32 - ℄ Special SD Manl MH

Exist. Ground @ ℄ Pipe

Proposed 8'x5'x11' Box Culv. ℄ El. 1055

Proposed 96" Gschnage Pipe

Top 2.36' P.Pas U.

Proposed 12" Ducts

℄ 36" I.E. 1041.45

℄ 2-36" P.Pas U.

79' I.E. 1038.47

370 L.F. 72" Pipe @ S=0.0001 ft/ft

℄ Pipe Sta 147+65 72"x36" Perton Tee

℄ Pipe Sta 148+12 I.E. 1033.10

Proposed 12" Storm Drain I.E. 1040.90

Proposed 8'x5'x11' Box Culv.

Combined Manl Drain 10'x8' Box Culv.

℄ 72" Pipe PVI Sta 147+65 I.E. 1042.61

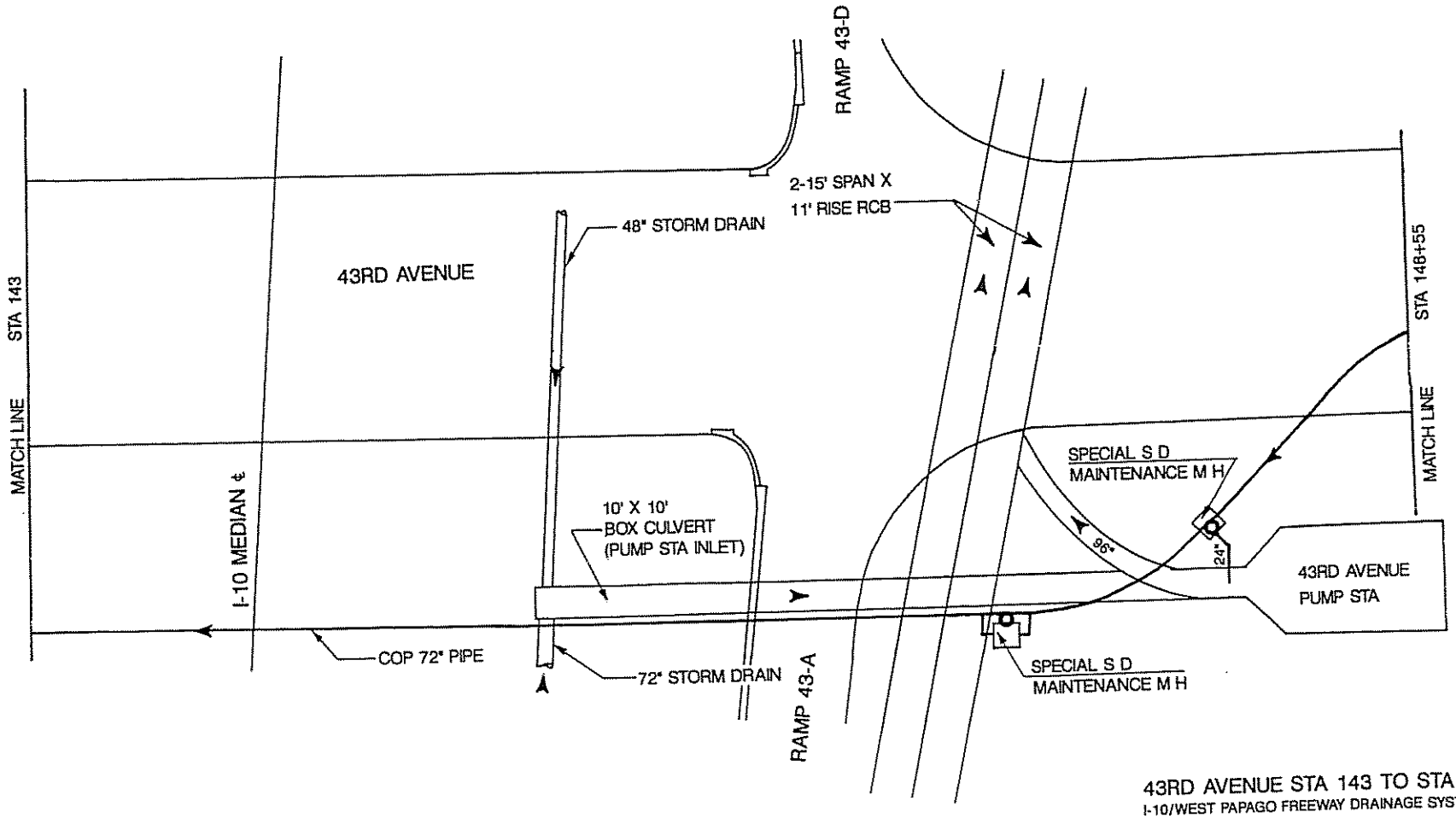
151 L.F. 72" Pipe @ S=.0001 ft/ft

60" SS I.E. 1042.95

REDUCED SIZE DO NOT SCALE

43RD AVE. STORM SEWER
PLAN & PROFILE
STA. 143+00 TO STA. 148+55

I-10-2(88)PE SHEET 142



NTS

43RD AVENUE STA 143 TO STA 148+55

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

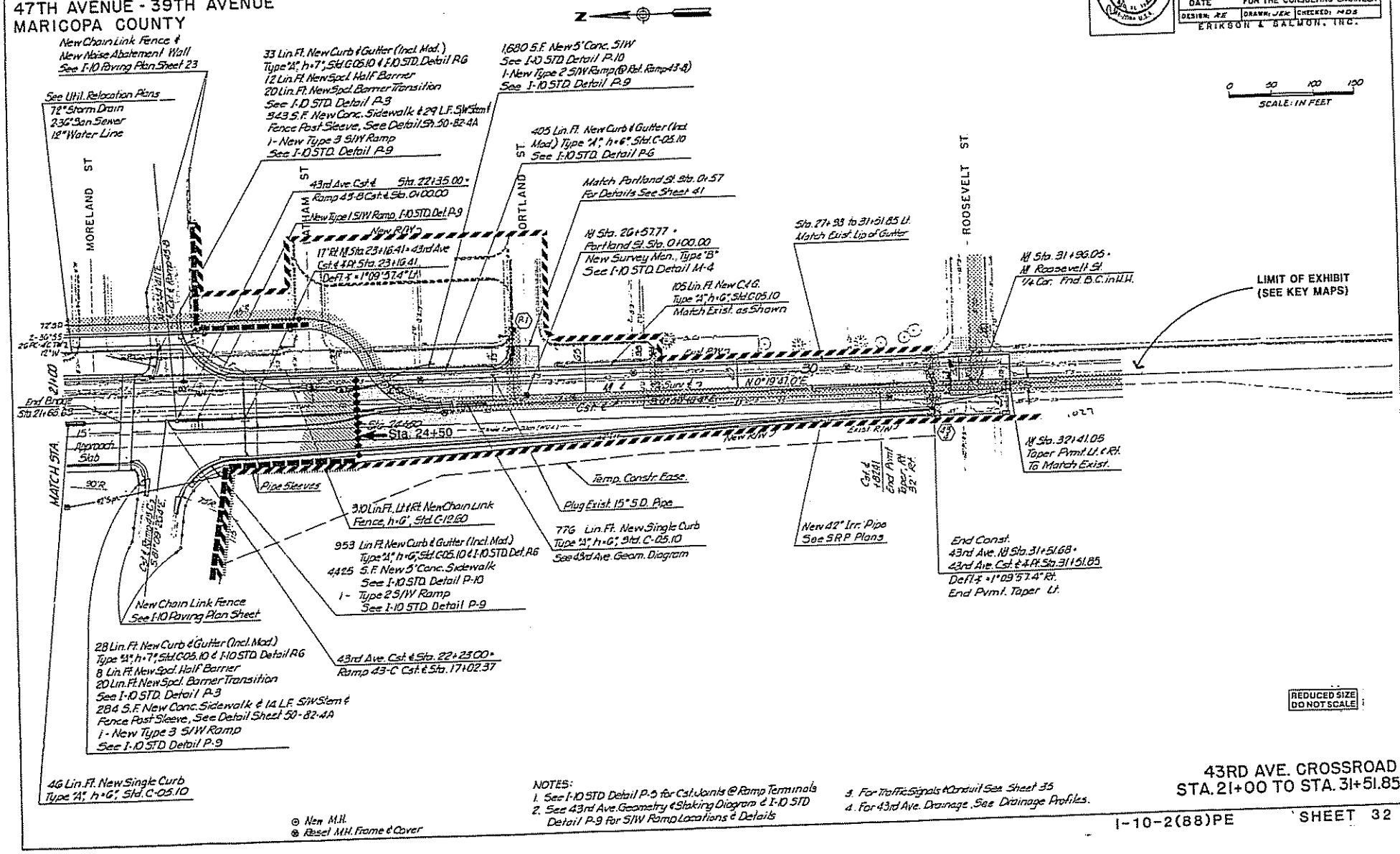
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-2(109)	32	181	

7/11/83 DATE — FOR THE CONSULTING ENGINEER

DESIGN: RE — DRAWN: JEK — CHECKED: MDS

ERICKSON & SALMON, INC.

EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY



NOTES:
1. See I-10 STD. Detail P-5 for Cst. Joints @ Ramp Terminals
2. See 43rd Ave. Geometry & Staking Diagram & I-10 STD. Detail P-9 for S/W Ramp Locations & Details
3. For Traffic Signals & Conduit See Sheet 35
4. For 43rd Ave. Drainage, See Drainage Profiles.

⊙ New M.H.
⊗ Reset M.H. Frame & Cover

43RD AVE. CROSSROAD
STA. 21+00 TO STA. 31+51.85

EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY

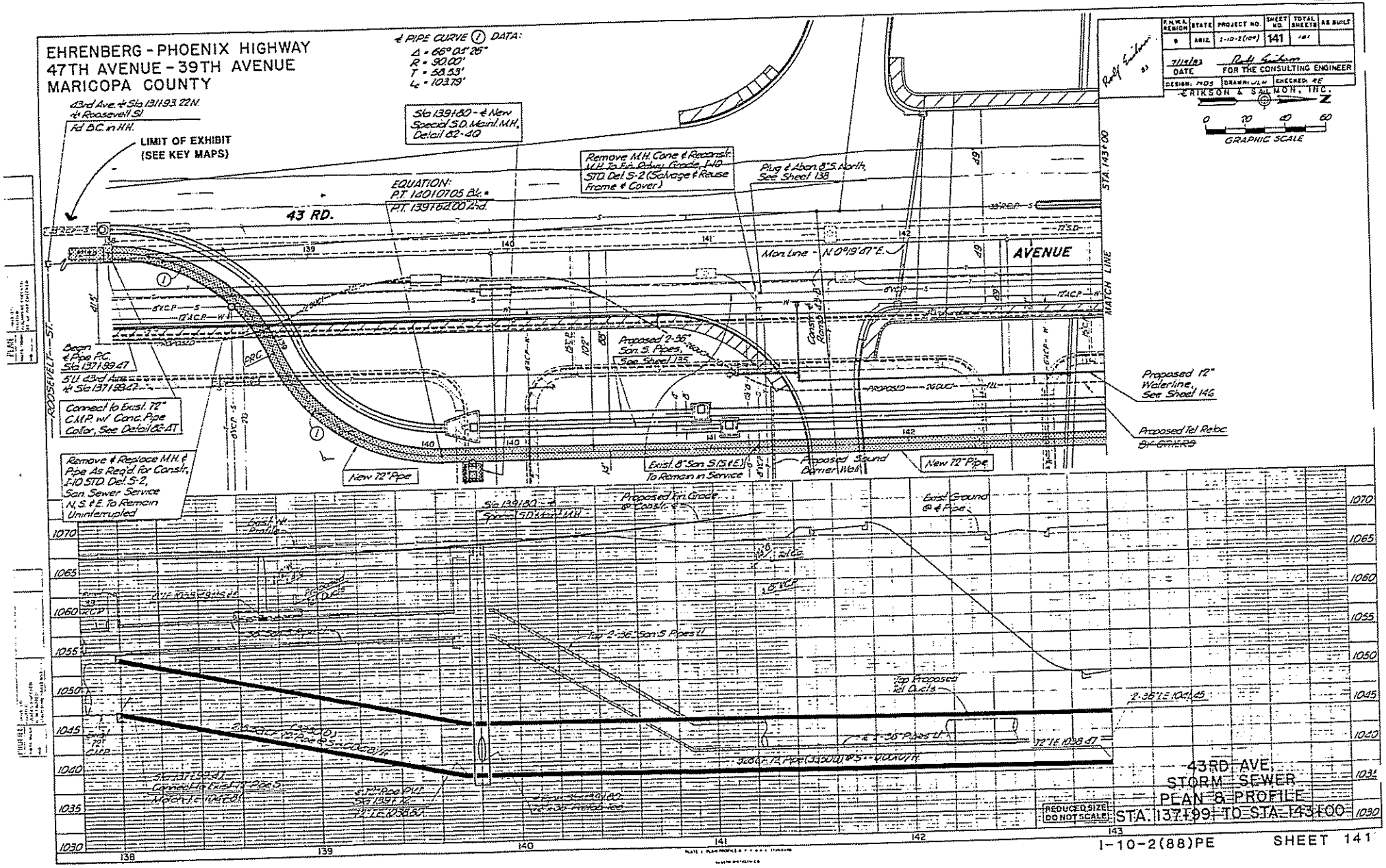
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-2(104)	141	181	

7/14/83 DATE — FOR THE CONSULTING ENGINEER

DESIGN: MDS DRAWN: JLW CHECKED: AE

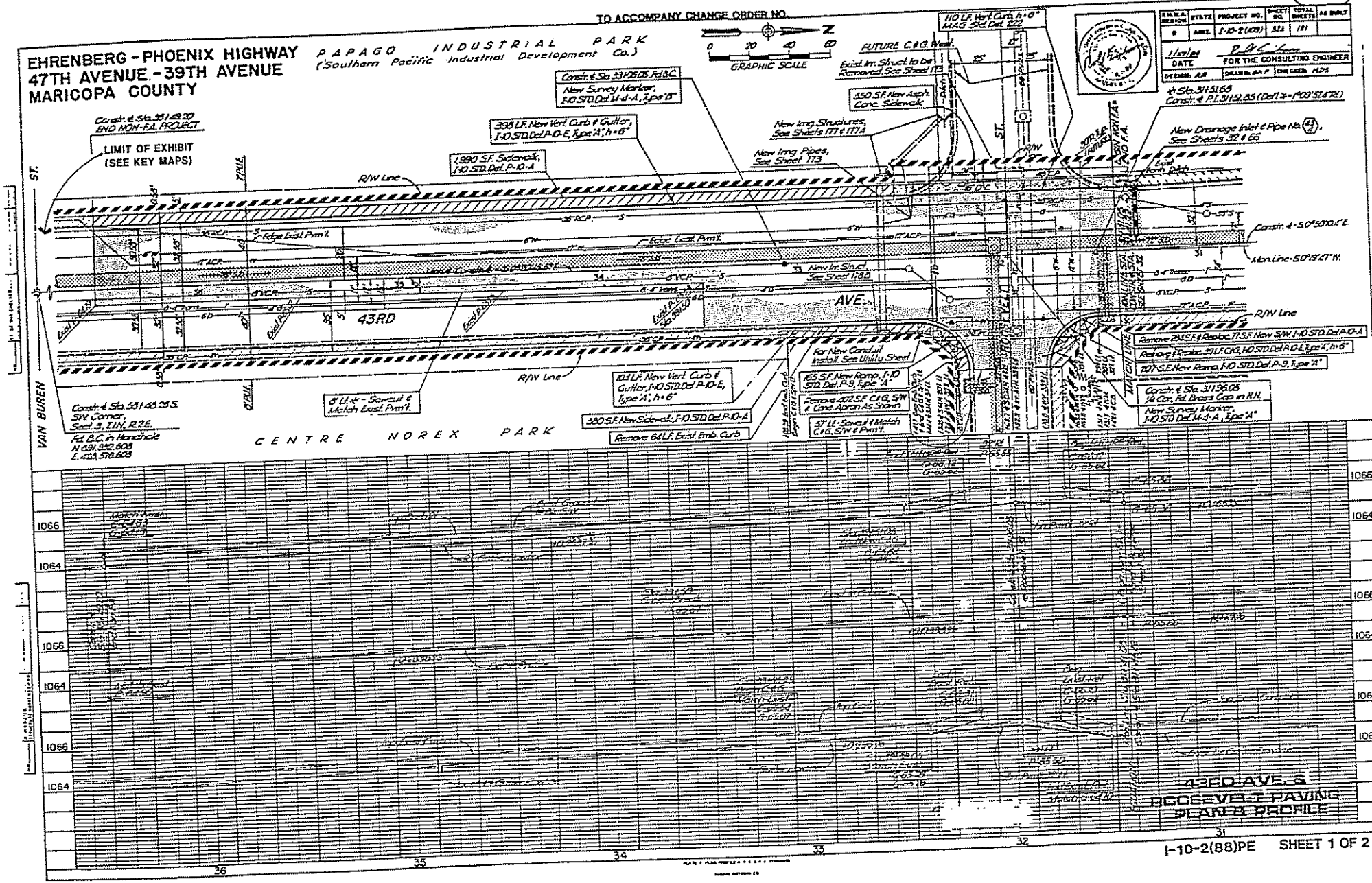
ERIKSON & SALMON, INC.

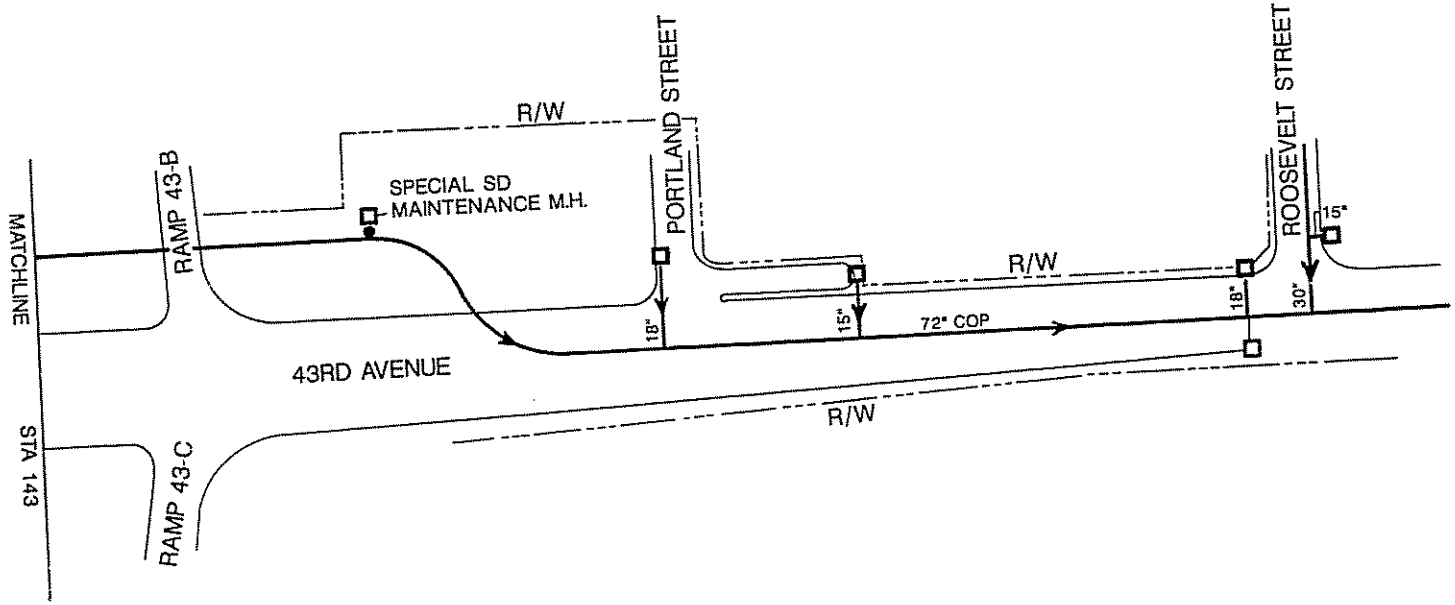
GRAPHIC SCALE 0 20 40 60



43RD AVE.
STORM SEWER
PLAN & PROFILE
STA. 137+99 TO STA. 143+00

I-10-2(88)PE SHEET 141


A-19
TO ACCOMPANY CHANGE ORDER NO.
EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY
PAPAGO INDUSTRIAL PARK
(Southern Pacific Industrial Development Co.)
GRAPHIC SCALE
0 20 40 60
LIMIT OF EXHIBIT
(SEE KEY MAPS)
Constr. ℄ Sta. 38+49.20
END NON-F.A. PROJECT
R/W Line
Edge Exist. Pvm't.
43RD
AVE.
ROOSEVELT
VAN BUREN
ST.
CENTRE NOREX PARK
Constr. ℄ Sta. 33+06.05 Fd. B.C.
New Survey Marker, I-10 STD. Del. M-4-A, Type "B"
398 L.F. New Vert. Curb & Gutter, I-10 STD. Del. P-10-E, Type "A", h=6"
1,990 S.F. Sidewalk, I-10 STD. Del. P-10-A
New Irrg. Structures, See Sheets 177 & 177A
New Irrg. Pipes, See Sheet 173
FUTURE C&G West
Exist. Irr. Struct. to be Removed, See Sheet 173
550 S.F. New Asph. Conc. Sidewalk
110 L.F. Vert. Curb, h=6" MAG Std. Det. 222
New Drainage Inlet & Pipe No. 43, See Sheets 32 & 66
Constr. ℄ P.I. 31+51.85 (Def. 7 = 1°09'57.4" Rt.)
Constr. ℄ Sta. 31+51.68
Mon. Line - S.0°19'47"W.
New Irr. Struct. See Sheet 178B
For New Conduit Install. See Utility Sheet
165 S.F. New Ramp, I-10 STD. Del. P-9, Type "A"
Remove 402 S.F. C&G, S/W & Conc. Apron As Shown
57' Lt. - Sawcut & Match C&G, S/W & Pvm't.
104 L.F. New Vert. Curb & Gutter, I-10 STD. Del. P-10-E, Type "A", h=6"
380 S.F. New Sidewalk, I-10 STD. Del. P-10-A
Remove 64 L.F. Exist. Emb. Curb
8' Lt. ℄ - Sawcut & Match Exist. Pvm't.
Constr. ℄ Sta. 58+48.28 S.
S/W Corner, Sect. 3, T.1N, R.2E.
Fd. B.C. in Handhole
N 691,932.608
E 428,576.608
Remove 284 S.F. & Replac. 77 S.F. New S/W, I-10 STD. Del. P-10-A
Remove & Replac. 39 L.F. C&G, I-10 STD. Del. P-10-E, Type "A", h=6"
207 S.F. New Ramp, I-10 STD. Del. P-9, Type "A"
Constr. ℄ Sta. 31+96.05
1/4 Cor. Fd. Brass Cap in H.H.
New Survey Marker, I-10 STD. Del. M-4-A, Type "A"
MATCH LINE
1066
1064
36
35
34
33
32
31
43RD AVE. & ROOSEVELT PAVING PLAN & PROFILE
I-10-2(88)PE
SHEET 1 OF 2



NTS

43RD AVENUE STA 131 TO STA 143

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

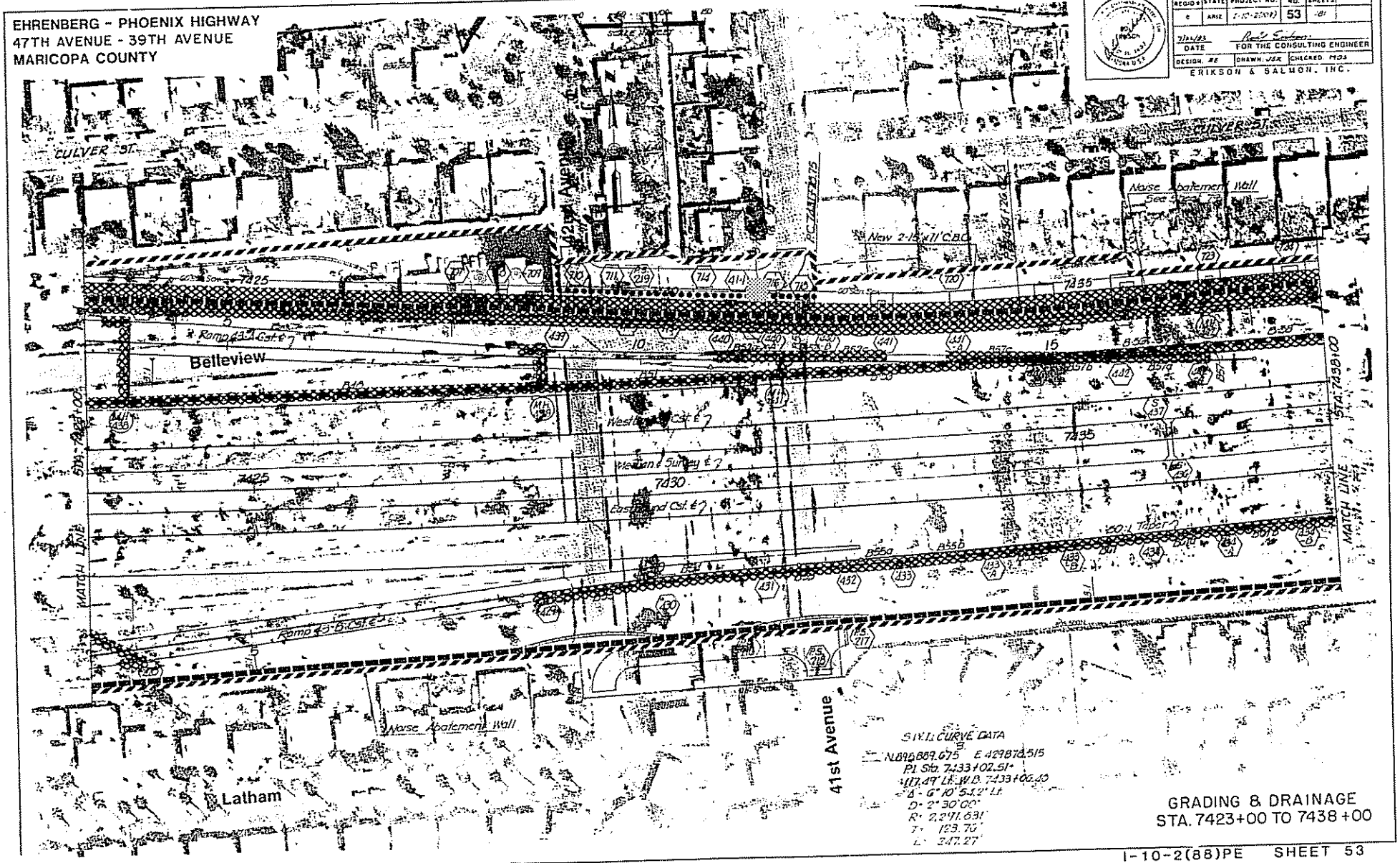
EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	I-10-2(088)	53	181	

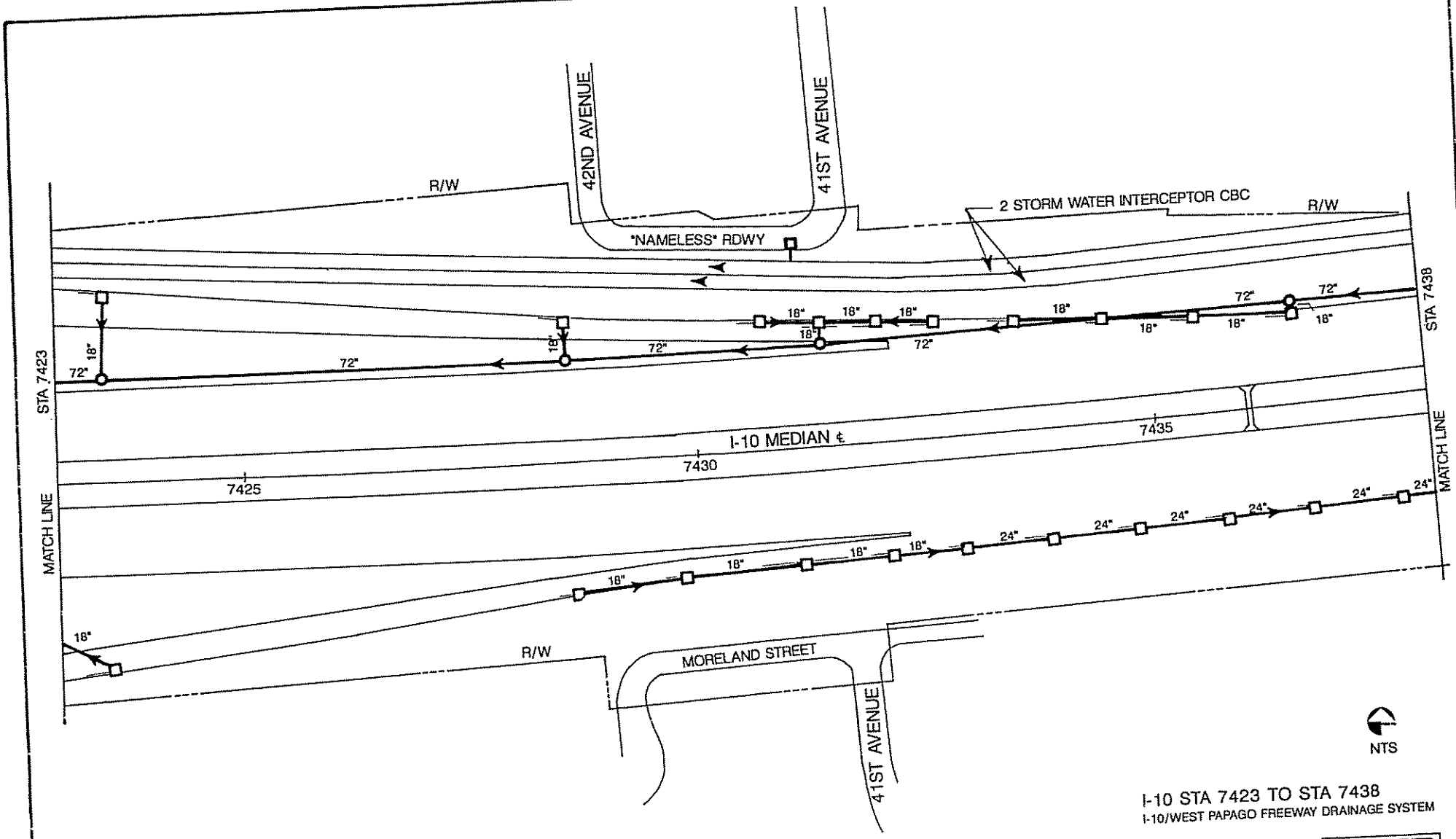
7/24/93 DATE — FOR THE CONSULTING ENGINEER

DESIGN: RE | DRAWN: JSK | CHECKED: MDS

ERIKSON & SALMON, INC.



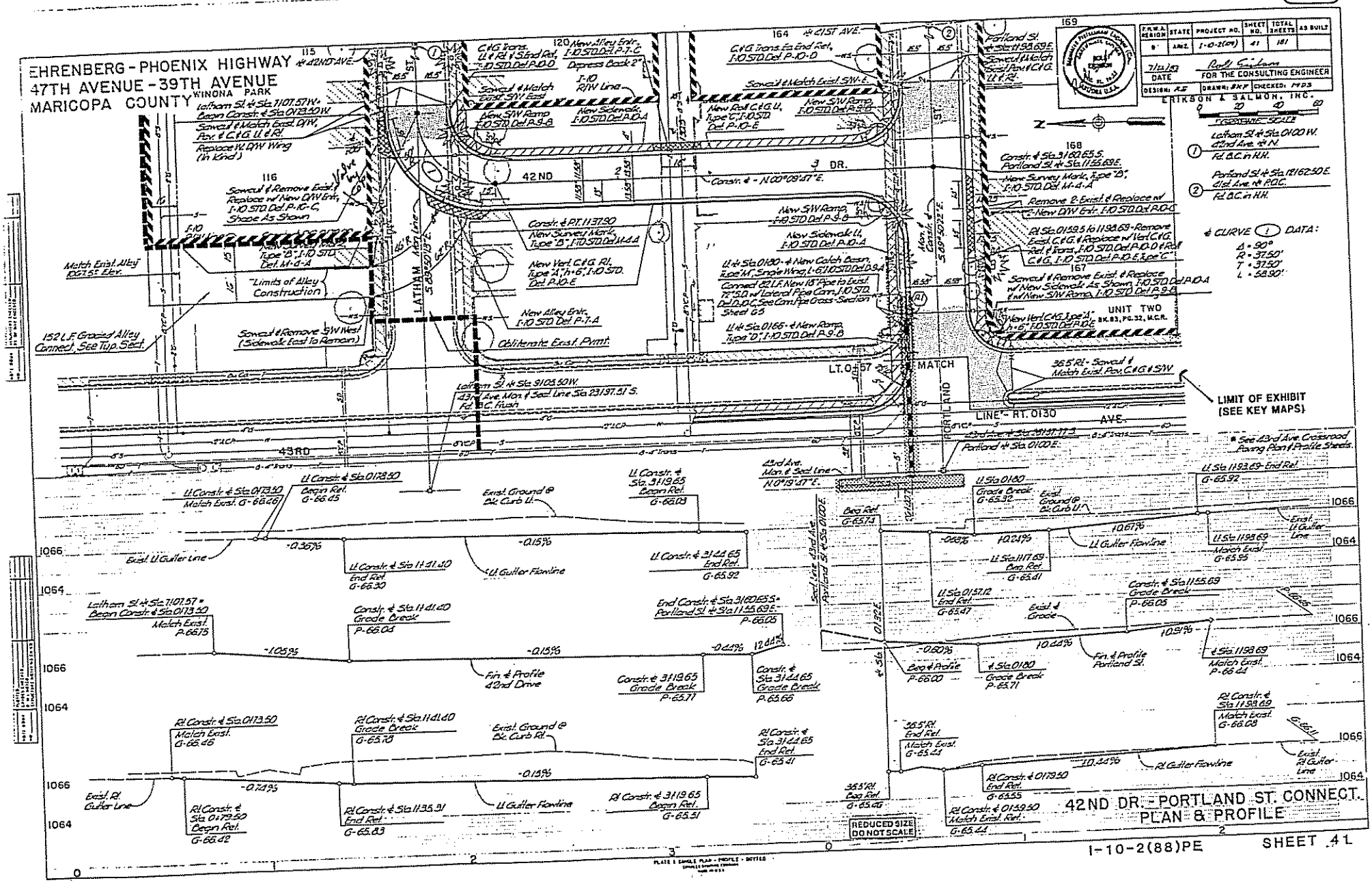
GRADING & DRAINAGE
STA. 7423+00 TO 7438+00

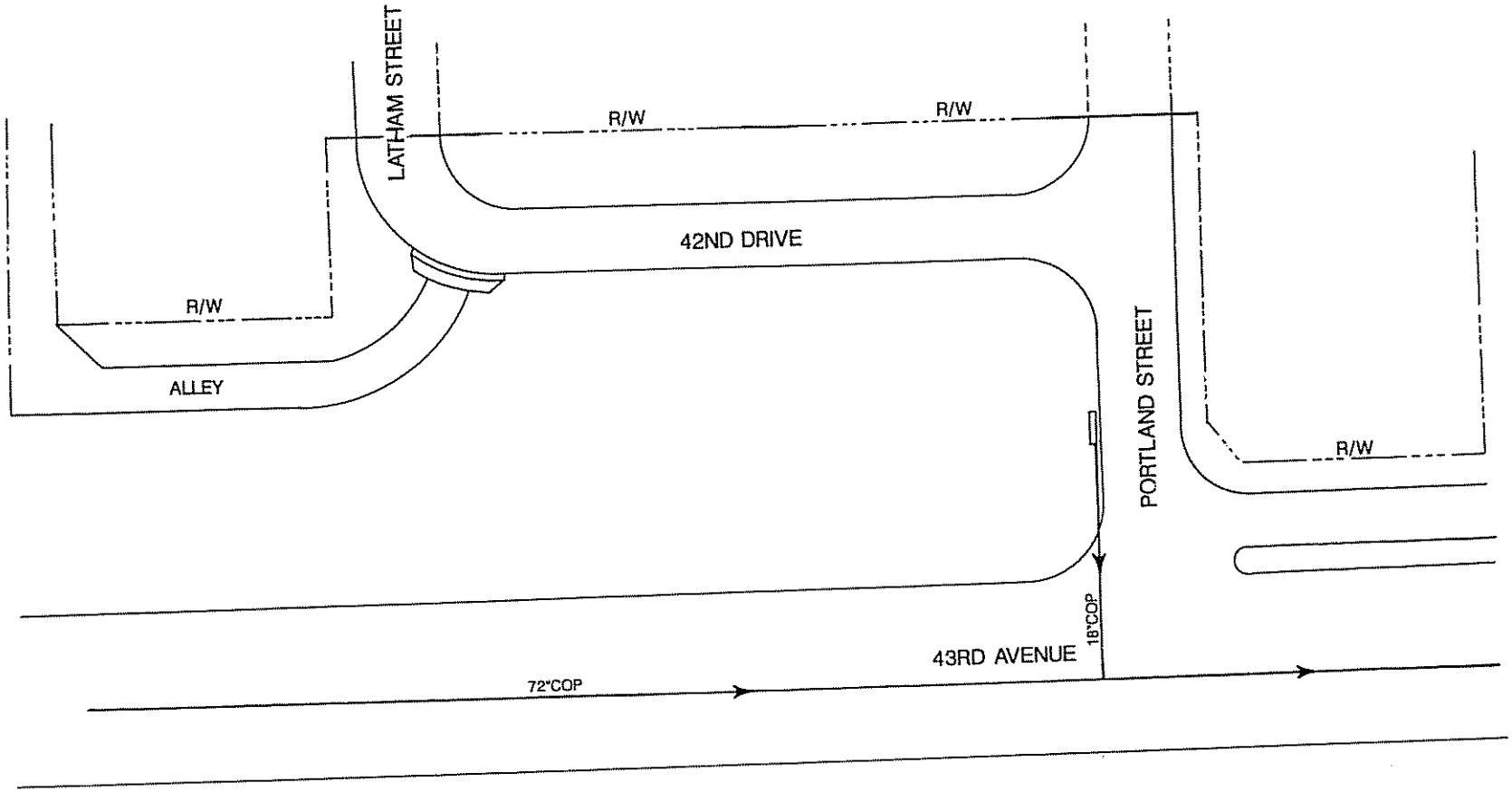


I-10 STA 7423 TO STA 7438

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY
WINONA PARK
42ND DR.
LATHAM
PORTLAND
43RD
UNIT TWO
MATCH
LINE - RT. 0130
AVE.
LIMIT OF EXHIBIT (SEE KEY MAPS)
42ND DR. - PORTLAND ST. CONNECT.
PLAN & PROFILE
REDUCED SIZE DO NOT SCALE
ERIKSON & SALMON, INC.
FOR THE CONSULTING ENGINEER
I-10-2(88)PE
SHEET 41

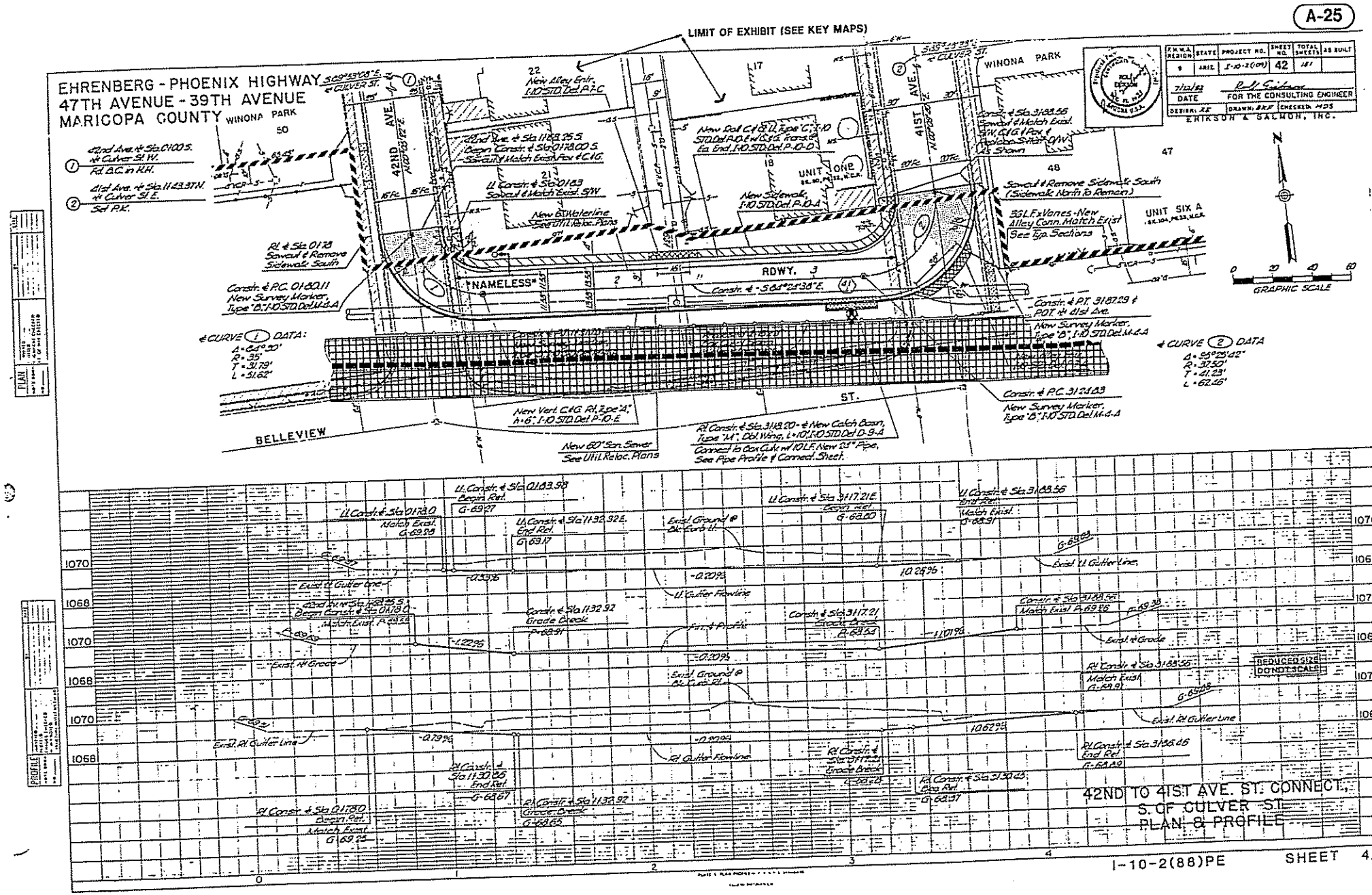


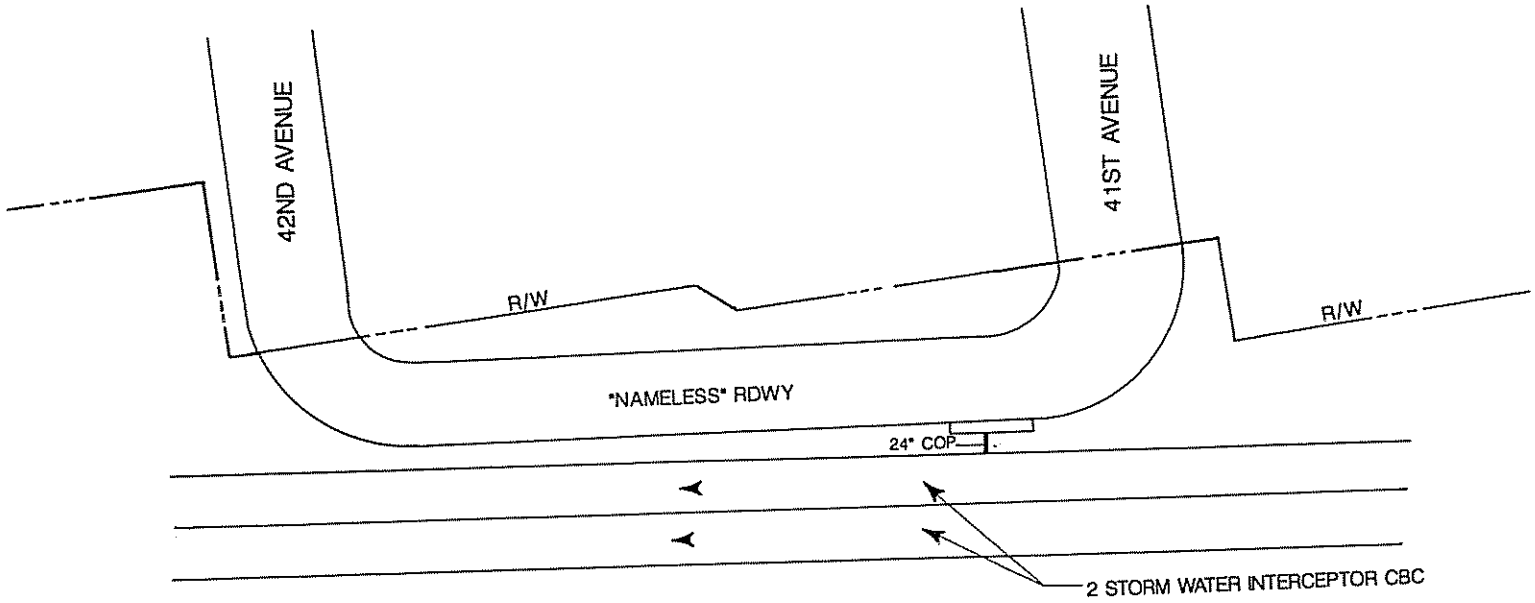
NTS

42ND DRIVE AND PORTLAND STREET CONNECTION

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


A-25
LIMIT OF EXHIBIT (SEE KEY MAPS)
EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY
WINONA PARK
42ND AVE.
41ST AVE.
UNIT ONE
UNIT SIX A
"NAMELESS" RDWY.
BELLEVIEW ST.
GRAPHIC SCALE
42ND TO 41ST AVE. ST. CONNECT.
S. OF CULVER ST.
PLAN & PROFILE
REDUCED SIZE DO NOT SCALE
I-10-2(88)PE
SHEET 4



NTS

42ND TO 41ST AVENUE STREET CONNECTION
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

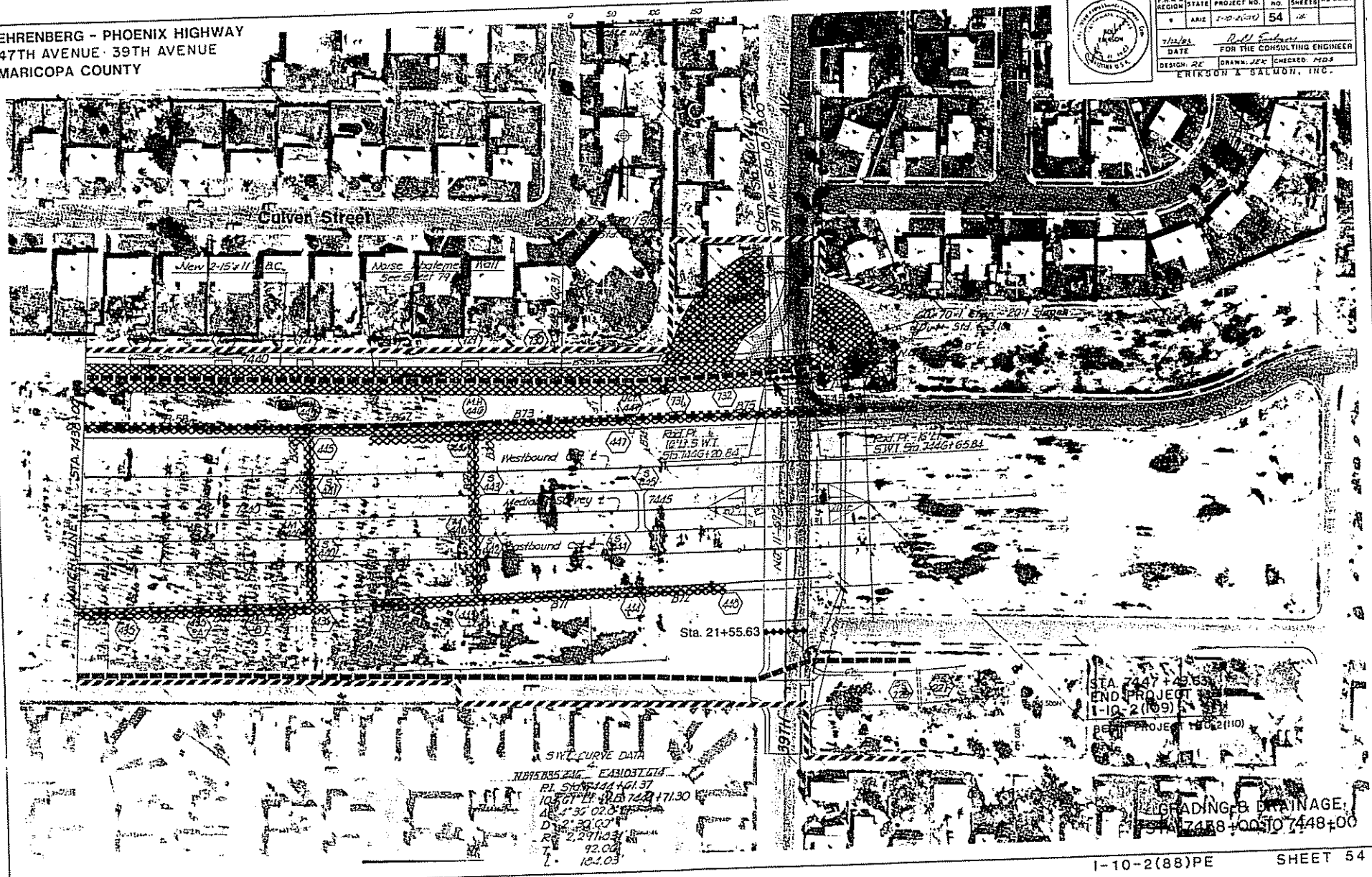
EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE · 39TH AVENUE
MARICOPA COUNTY

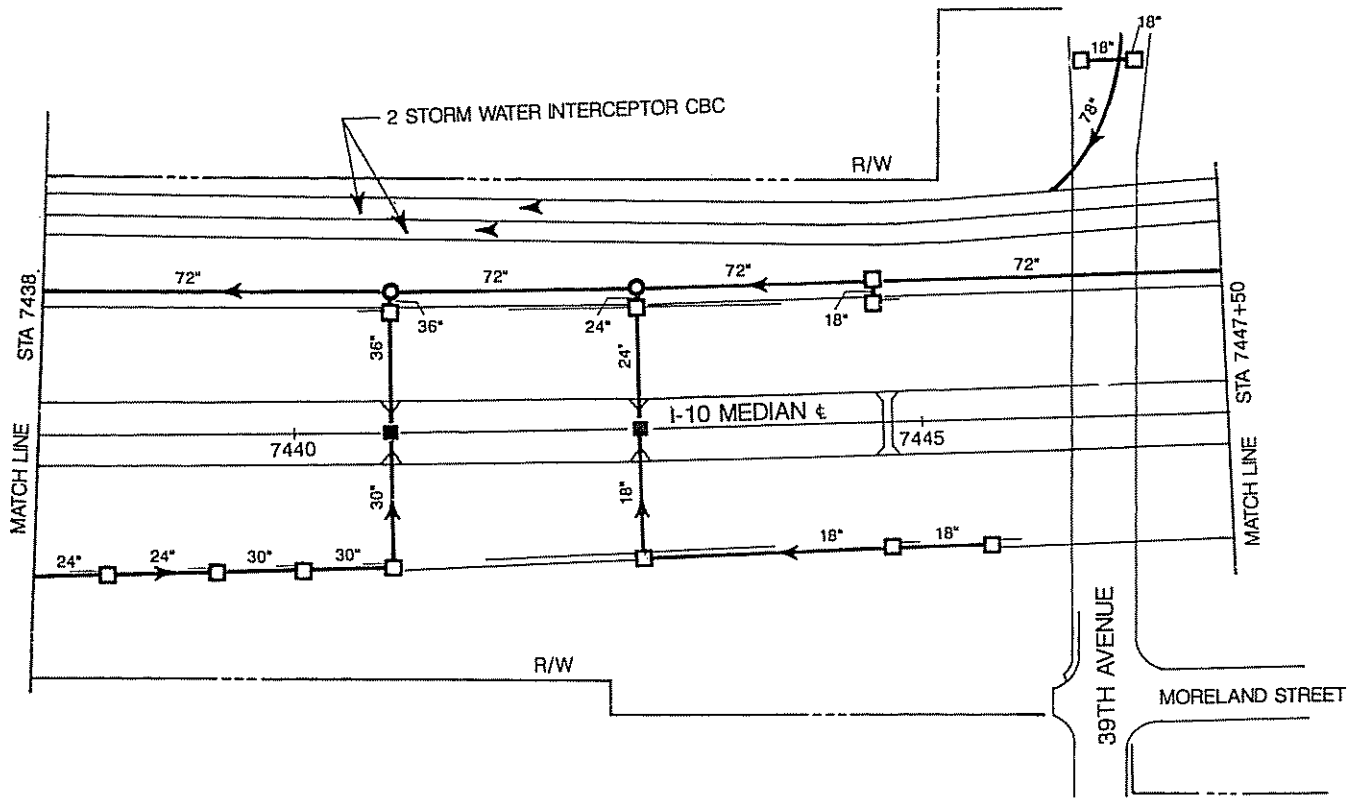
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	I-10-2(109)	54		

7/12/88 DATE — FOR THE CONSULTING ENGINEER

DESIGN: RE — DRAWN: JEK — CHECKED: MDS

ERIKSON & SALMON, INC.





NTS

I-10 STA 7438 TO STA 7447+50

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

A-29

EHRENBERG - PHOENIX HIGHWAY
47TH AVENUE - 39TH AVENUE
MARICOPA COUNTY

WINONA PARK UNIT SIX A

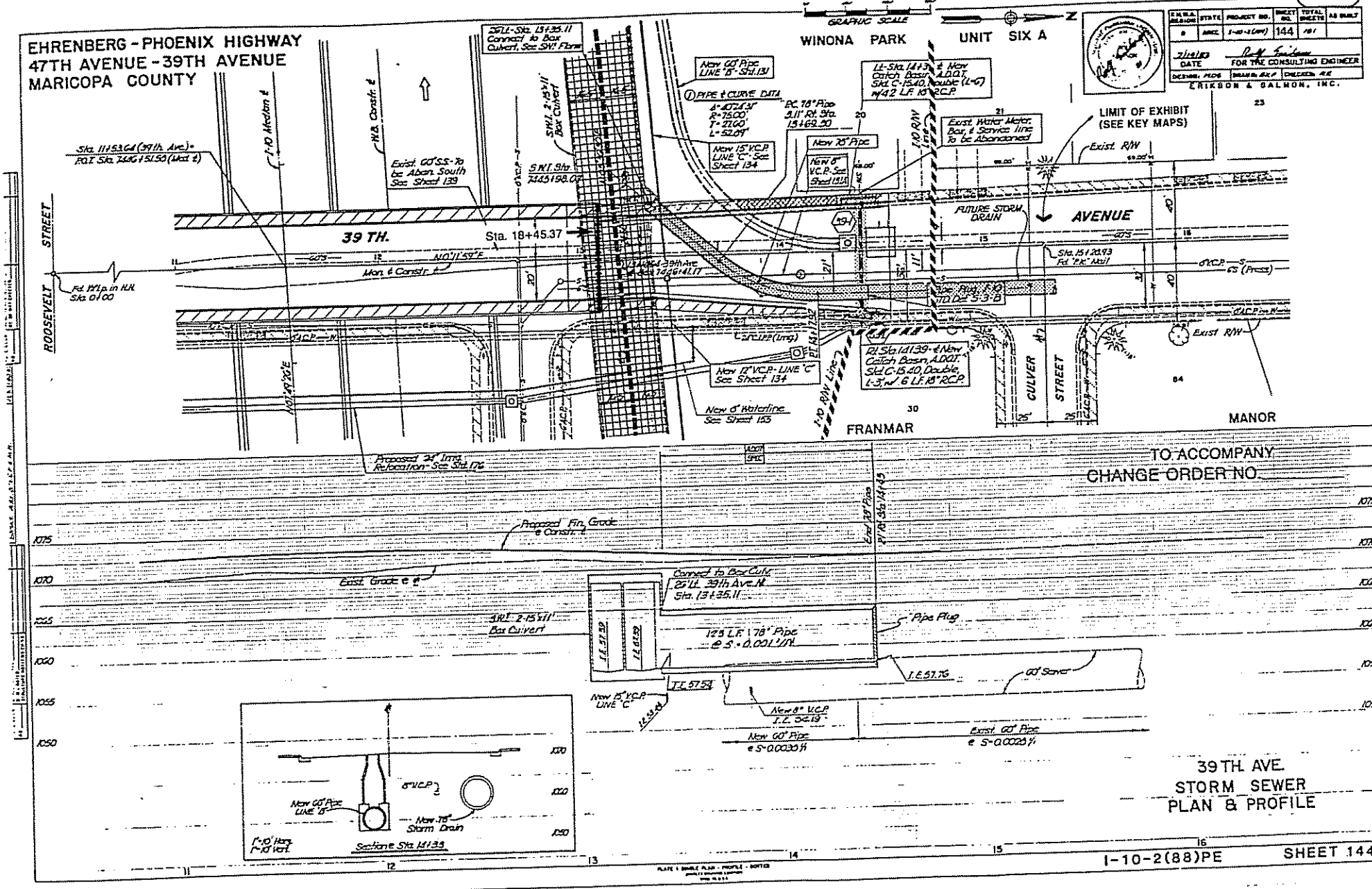
GRAPHIC SCALE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-2(089)	144	181	

7/21/83 DATE FOR THE CONSULTING ENGINEER

DESIGNED PLDS DRAWN BLF CHECKED AE

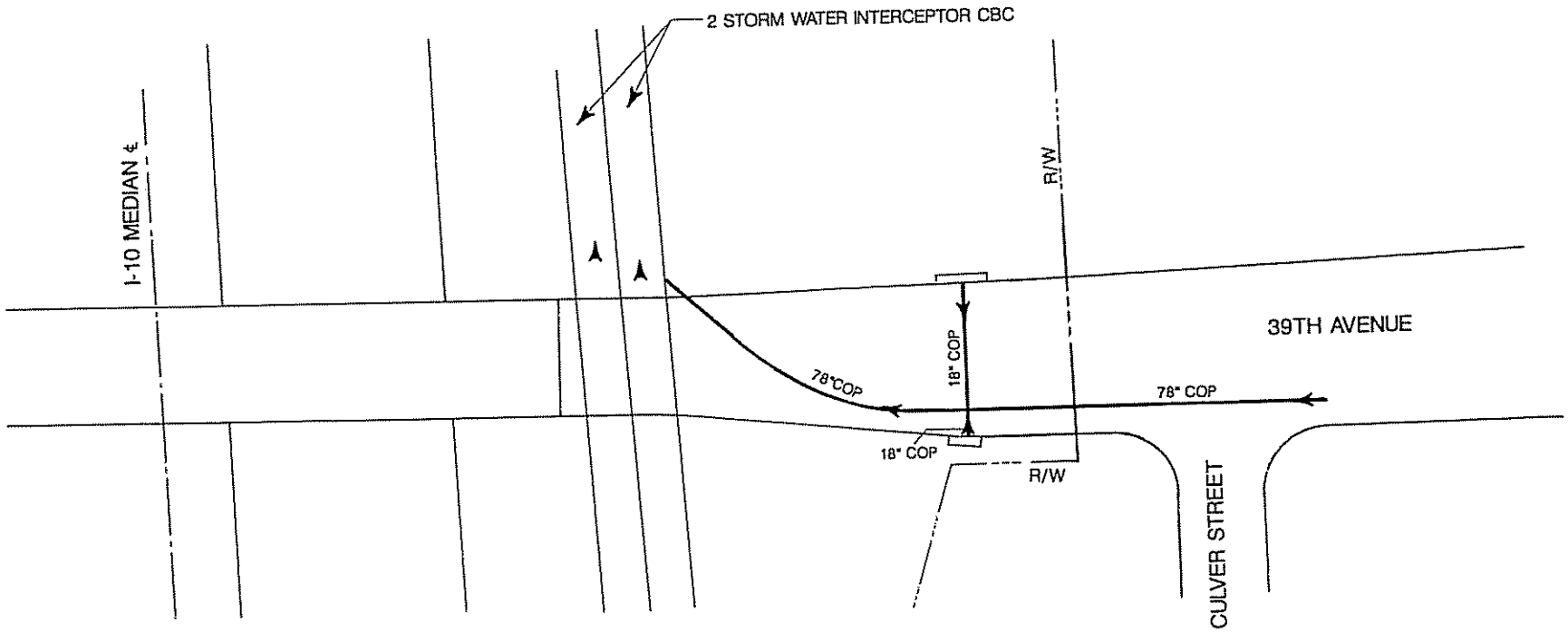
ERIKSON & SALMON, INC.



TO ACCOMPANY
CHANGE ORDER NO.

39 TH. AVE.
STORM SEWER
PLAN & PROFILE

I-10-2(88)PE SHEET 144



NTS

39TH AVENUE STA 11 TO STA 16

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

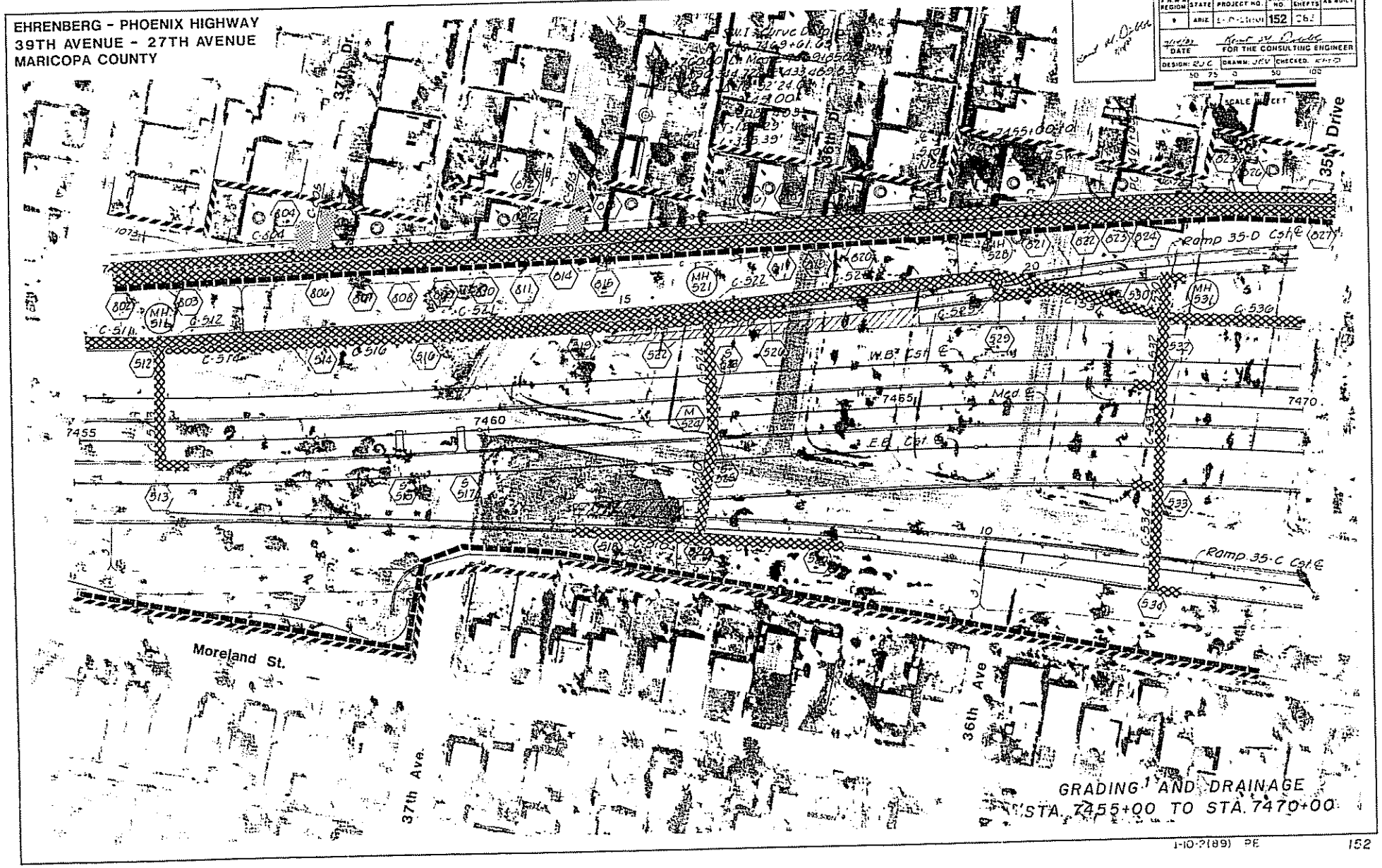
HNTB

EHRENBERG - PHOENIX HIGHWAY
39TH AVENUE - 27TH AVENUE
MARICOPA COUNTY

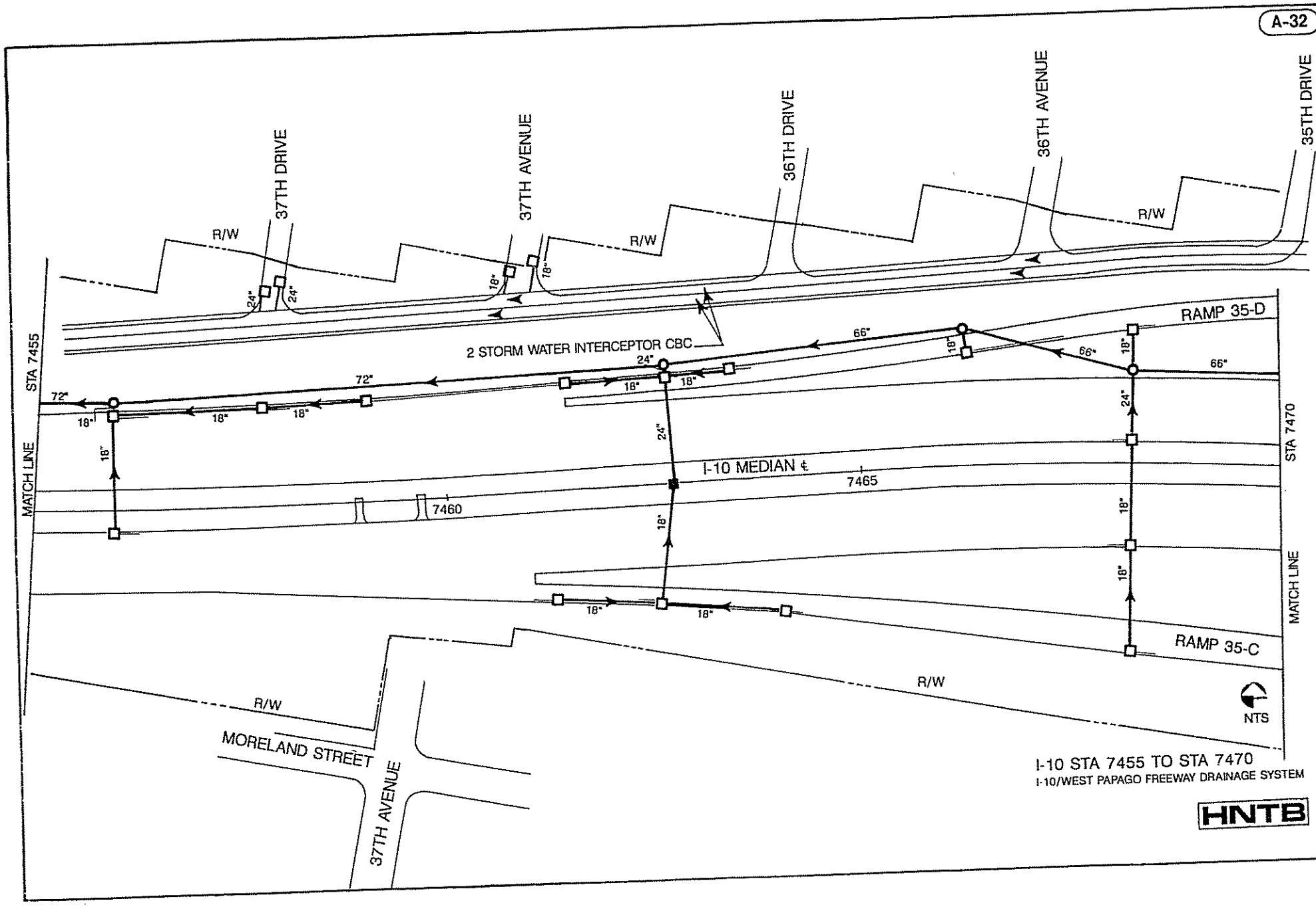
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	[illegible]	152	262	

DATE — FOR THE CONSULTING ENGINEER

DESIGN: [illegible] DRAWN: [illegible] CHECKED: [illegible]



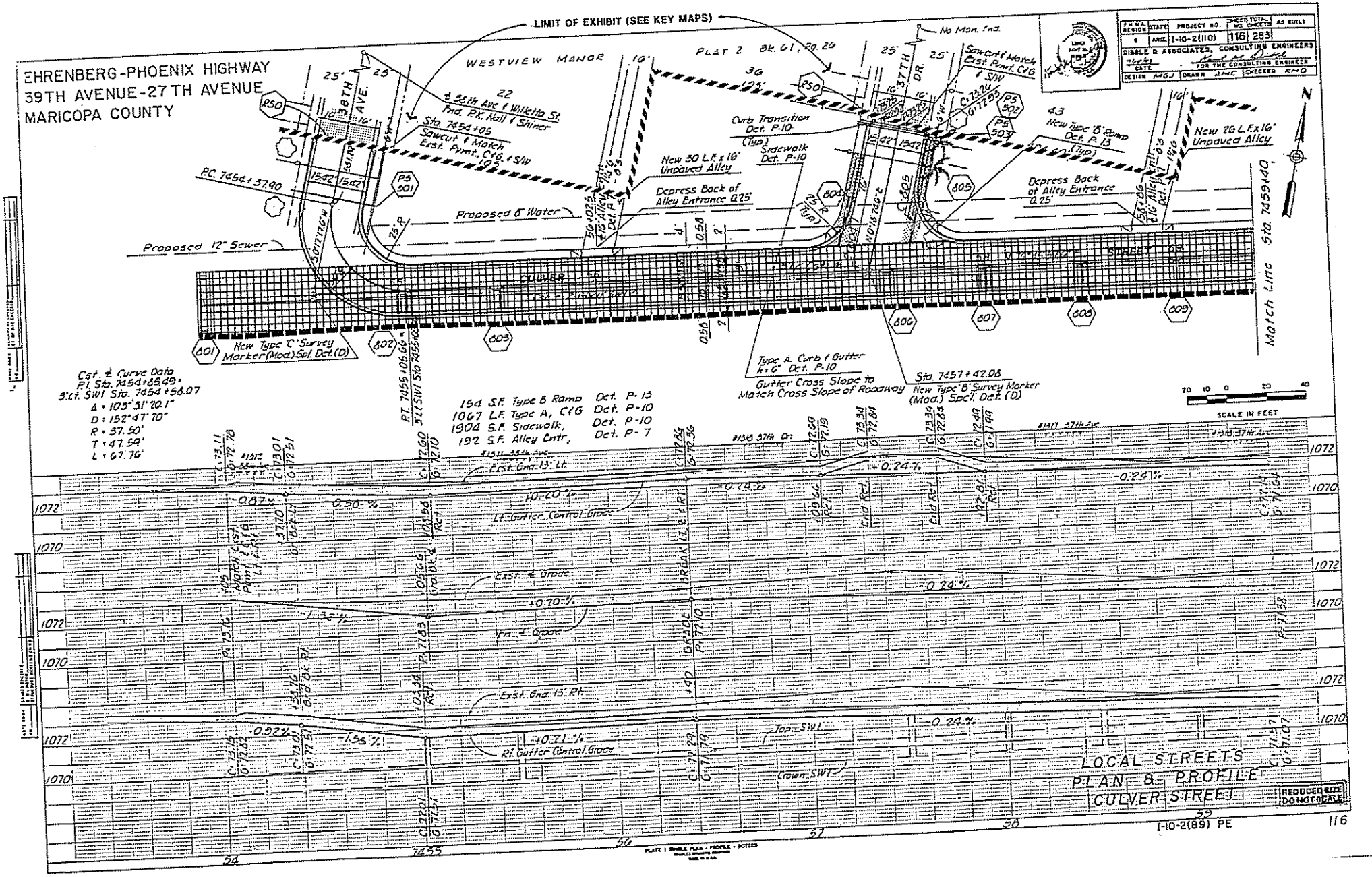
GRADING AND DRAINAGE
STA. 7455+00 TO STA. 7470+00

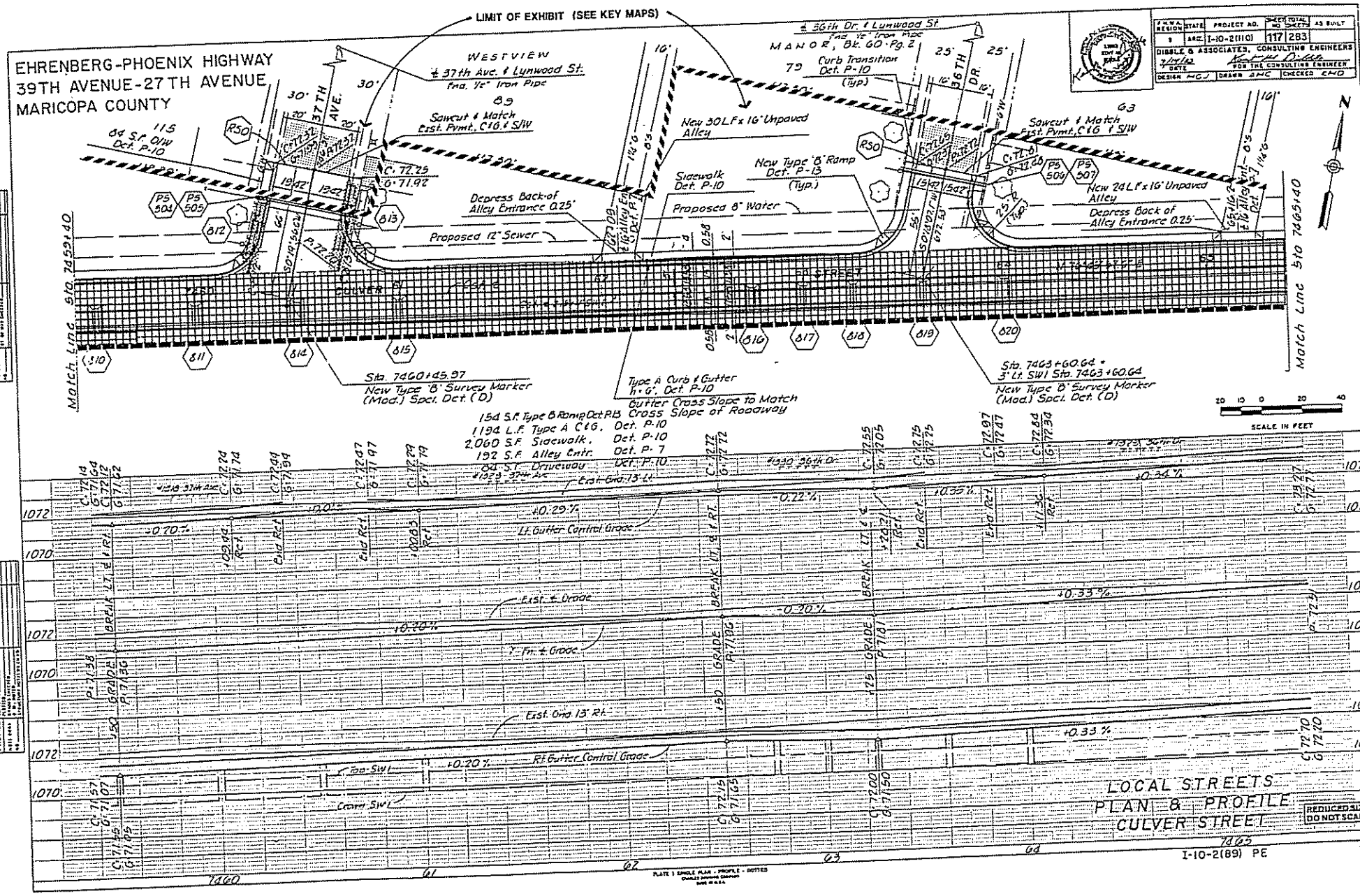


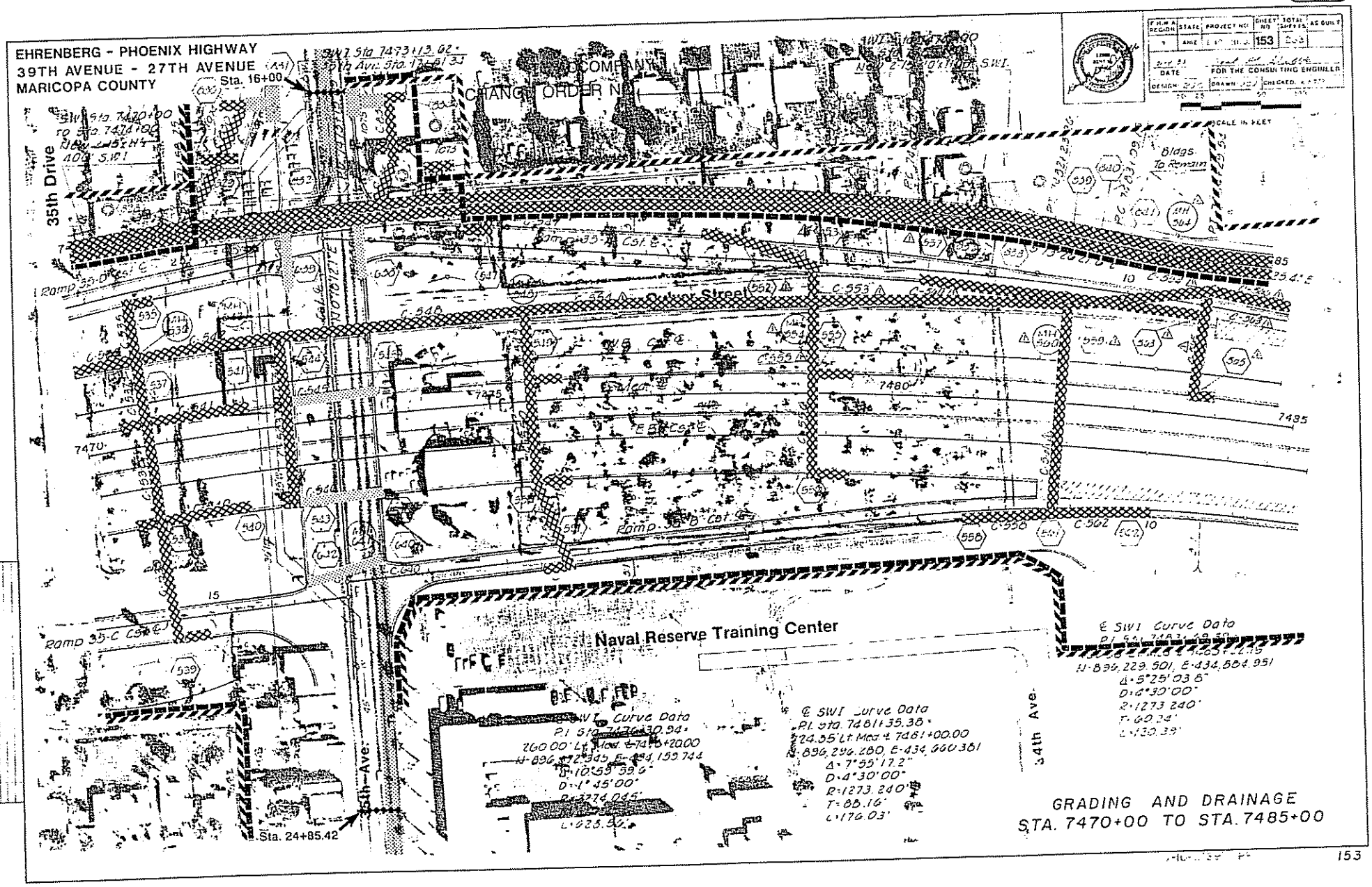
I-10 STA 7455 TO STA 7470

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

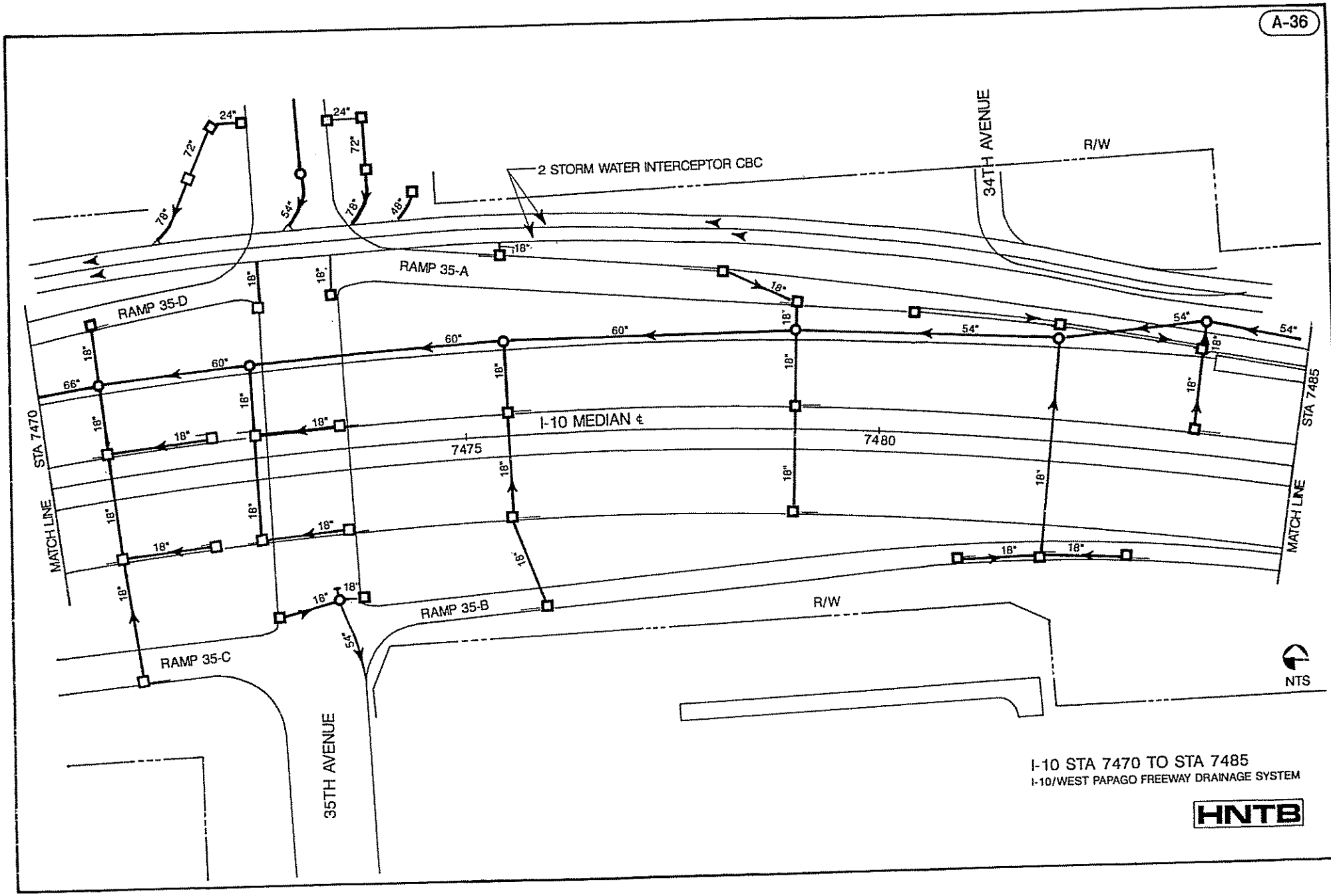
HNTB


EHRENBERG-PHOENIX HIGHWAY
39TH AVENUE-27TH AVENUE
MARICOPA COUNTY
LIMIT OF EXHIBIT (SEE KEY MAPS)
WESTVIEW MANOR
PLAT 2 Bk. 61, Pg. 26
No Mon. Fnd.
38TH AVE.
37TH DR.
Sawcut & Match Exst. Pvmt. C&G & S/W
Sta. 7454+05
Sawcut & Match Exst. Pvmt., C&G, & S/W
P.C. 7454+37.90
Proposed 12" Sewer
Proposed 8" Water
New 30 L.F. x 16' Unpaved Alley
Depress Back of Alley Entrance 0.25'
Curb Transition Det. P-10 (Typ)
Sidewalk Det. P-10
New Type 'B' Ramp Det. P-13 (Typ)
New 26 L.F. x 16' Unpaved Alley
Depress Back of Alley Entrance 0.25'
CULVER STREET
Match Line Sta. 7459+40
New Type 'C' Survey Marker (Mod.) Spl. Det. (D)
Type A. Curb & Gutter 4 x 6" Det. P-10
Gutter Cross Slope to Match Cross Slope of Roadway
Sta. 7457+42.08
New Type 'B' Survey Marker (Mod.) Spl. Det. (D)
Cst. ℄ Curve Data
P.I. Sta. 7454+85.49 = 3' Lt. SW1 Sta. 7454+58.07
Δ = 105°31'20.1"
D = 152°47'20"
R = 37.50'
T = 47.59'
L = 67.76'
P.T. 7455+05.66 = 3' Lt SW1 Sta 7455+05
154 S.F. Type B Ramp Det. P-13
1067 L.F. Type A, C&G Det. P-10
1904 S.F. Sidewalk, Det. P-10
192 S.F. Alley Entr, Det. P-7
SCALE IN FEET
Exst. Gnd. 13' Lt.
Lt. Gutter Control Grade
Exst. ℄ Grade
Fn. ℄ Grade
Exst. Gnd. 13' Rt.
Rt. Gutter Control Grade
Top SW1
Crown SW1
LOCAL STREETS
PLAN & PROFILE
CULVER STREET
REDUCED SIZE DO NOT SCALE
I-10-2(89) PE
116


LIMIT OF EXHIBIT (SEE KEY MAPS)
EHRENBERG-PHOENIX HIGHWAY
39TH AVENUE-27TH AVENUE
MARICOPA COUNTY
WESTVIEW MANOR, Bk. 60 Pg. 2
± 37th Ave. & Lynwood St.
Fnd. 1/2" Iron Pipe
± 36th Dr. & Lynwood St.
Fnd. 1/2" Iron Pipe
Sawcut & Match Exst. Pvmt. C16 & S/W
Curb Transition Det. P-10 (Typ.)
New 30 L.F. x 16' Unpaved Alley
New Type 'B' Ramp Det. P-13 (Typ.)
Sidewalk Det. P-10
Proposed 8" Water
Proposed 12" Sewer
Depress Back of Alley Entrance 0.25'
New 24 L.F. x 16' Unpaved Alley
Sta. 7460+45.97
New Type 'B' Survey Marker (Mod.) Spcl. Det. (D)
Type A Curb & Gutter h.G. Det. P-10
Gutter Cross Slope to Match Cross Slope of Roadway
Sta. 7463+60.64 = 3' Lt. SWI Sta. 7463+60.64
New Type 'B' Survey Marker (Mod.) Spcl. Det. (D)
154 S.F. Type B Ramp Det. P13
1194 L.F. Type A C&G, Det. P-10
2,060 S.F. Sidewalk, Det. P-10
192 S.F. Alley Entr. Det. P-7
82 S.F. Driveway Det. P-10
Match Line Sta. 7459+40
Match Line Sta. 7465+40
SCALE IN FEET
LOCAL STREETS
PLAN & PROFILE
CULVER STREET
REDUCED SIZE DO NOT SCALE
I-10-2(89) PE
117



GRADING AND DRAINAGE
STA. 7470+00 TO STA. 7485+00



I-10 STA 7470 TO STA 7485

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

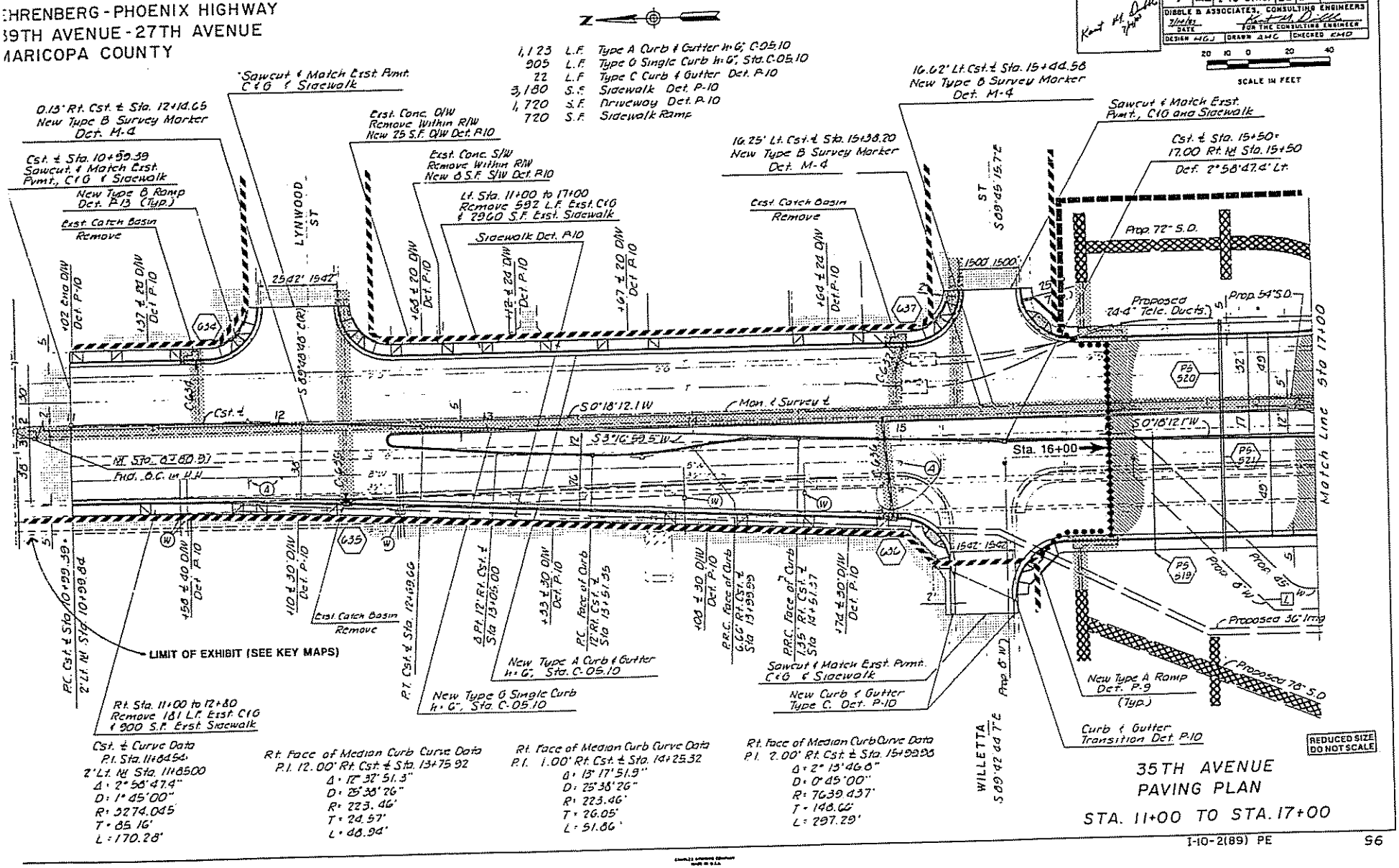
CHRENBERG - PHOENIX HIGHWAY
39TH AVENUE - 27TH AVENUE
MARICOPA COUNTY

FWHA REGION	STATE	PROJECT NO.	SHEET NO	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-2(110)	96	283	

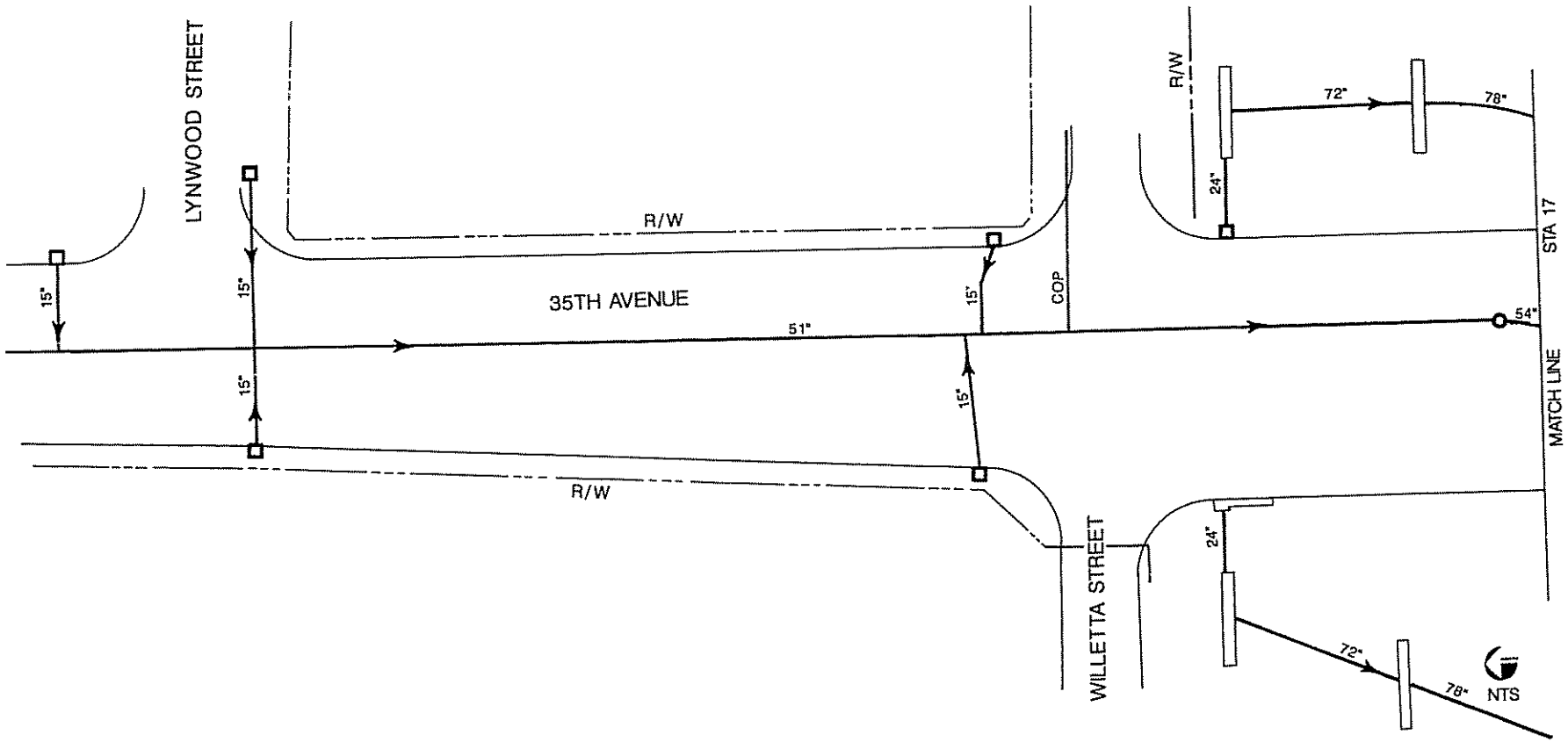
DIBBLE & ASSOCIATES, CONSULTING ENGINEERS
FOR THE CONSULTING ENGINEER
DESIGN HGJ DRAWN AMC CHECKED KMD

SCALE IN FEET 20 10 0 20 40

1,123	L.F.	Type A Curb & Gutter In G, C-05.10
905	L.F.	Type G Single Curb In G, Sta. C-05.10
22	L.F.	Type C Curb & Gutter Det. P-10
3,180	S.Y.	Sidewalk Det. P-10
1,720	S.F.	Driveway Det. P-10
720	S.F.	Sidewalk Ramp



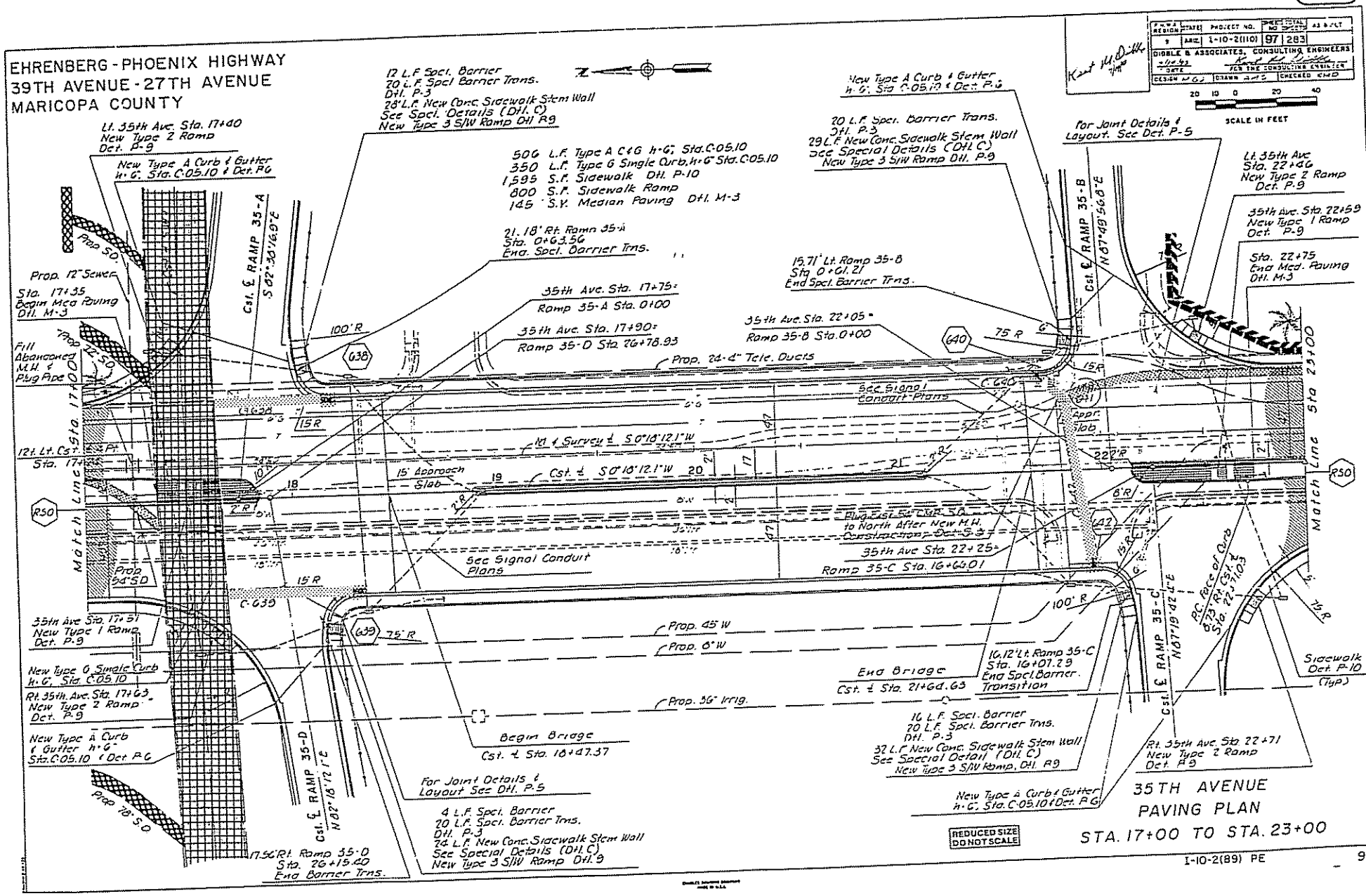
35TH AVENUE
PAVING PLAN
STA. 11+00 TO STA. 17+00

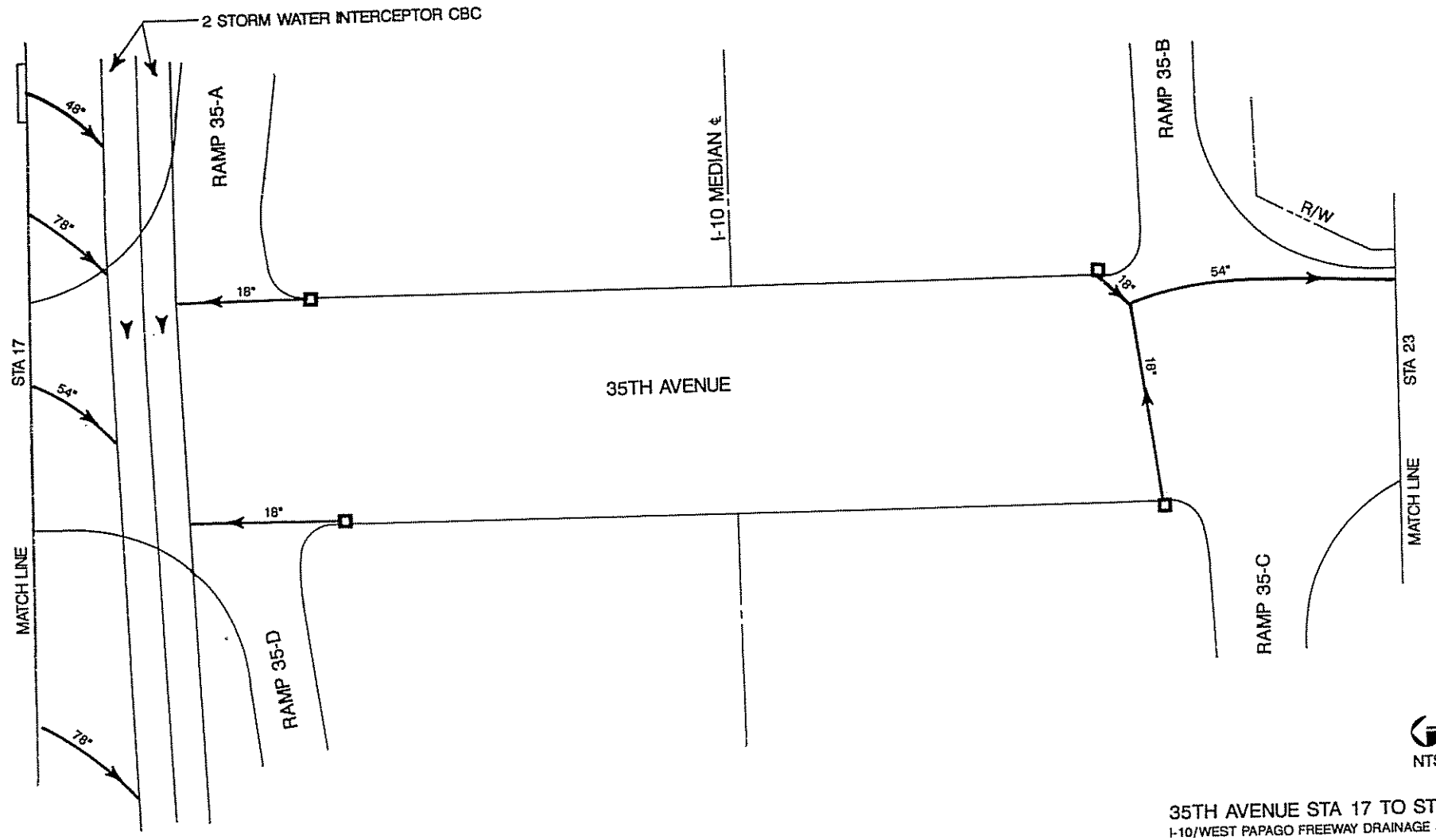


35TH AVENUE STA 11 TO STA 17

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


EHRENBERG - PHOENIX HIGHWAY
39TH AVENUE - 27TH AVENUE
MARICOPA COUNTY
DIBBLE & ASSOCIATES, CONSULTING ENGINEERS
SCALE IN FEET
Lt. 35th Ave. Sta. 17+40 New Type 2 Ramp Det. P-9
New Type A Curb & Gutter h-6", Sta. C-05.10 & Det. P-6
12 L.F. Spcl. Barrier
20 L.F. Spcl Barrier Trans. Dtl. P-3
28 L.F. New Conc. Sidewalk Stem Wall See Spcl. Details (Dtl. C) New Type 3 S/W Ramp Dtl. P-9
506 L.F. Type A C&G h-6", Sta. C-05.10
350 L.F. Type G Single Curb, h-6" Sta. C-05.10
1,595 S.F. Sidewalk Dtl. P-10
800 S.F. Sidewalk Ramp
145 S.Y. Median Paving Dtl. M-3
21.18' Rt. Ramp 35-A Sta. 0+63.56 End Spcl. Barrier Trns.
New Type A Curb & Gutter h-6", Sta. C-05.10 & Det. P-6
20 L.F. Spcl. Barrier Trans. Dtl. P-3
29 L.F. New Conc. Sidewalk Stem Wall See Special Details (Dtl. C) New Type 3 S/W Ramp Dtl. P-9
For Joint Details & Layout. See Det. P-5
Lt. 35th Ave Sta. 22+46 New Type 2 Ramp Det. P-9
35th Ave. Sta. 22+59 New Type 1 Ramp Det. P-9
Sta. 22+75 End Med. Paving Dtl. M-3
Prop. 12" Sewer
Sta. 17+35 Begin Med Paving Dtl. M-3
Fill Abandoned M.H. & Plug Pipe
Cst. ℄ RAMP 35-A S 82°30'16.9"E
35th Ave. Sta. 17+75 = Ramp 35-A Sta. 0+00
35th Ave. Sta. 17+90 = Ramp 35-D Sta. 26+78.93
15.71' Lt. Ramp 35-B Sta. 0+61.21 End Spcl. Barrier Trns.
35th Ave. Sta. 22+05 = Ramp 35-B Sta. 0+00
Prop. 24-4" Tele. Ducts
See Signal Conduit Plans
Cst. ℄ RAMP 35-B N 87°49'56.8"E
Match Line Sta. 17+00
Match Line Sta. 23+00
12' Lt. Cst. Sta. 17+
Rt. & Survey ℄ S 0°18'12.1"W
15' Approach Slab
Cst. ℄ S 0°18'12.1"W
Plug Cst. 54" CMP S.D. to North After New M.H. Construction Det. S-3
35th Ave Sta. 22+25 = Ramp 35-C Sta. 16+66.01
See Signal Conduit Plans
Prop. 54" S.D.
35th Ave Sta. 17+51 New Type 1 Ramp Det. P-9
Prop. 45" W
Prop. 6" W
New Type G Single Curb h-6", Sta. C-05.10
Rt. 35th Ave. Sta. 17+63 New Type 2 Ramp Det. P-9
Prop. 36" Irrig.
End Bridge Cst. ℄ Sta. 21+64.63
16.12' Lt. Ramp 35-C Sta. 16+07.29 End Spcl. Barrier Transition
Cst. ℄ RAMP 35-C N 87°19'42.4"E
P.C. Face of Curb 8.73' Rt. Cst. ℄ Sta. 22+71.03
Sidewalk Det. P-10 (Typ)
New Type A Curb & Gutter h-6", Sta. C-05.10 & Det. P-6
Begin Bridge Cst. ℄ Sta. 18+47.37
16 L.F. Spcl. Barrier
20 L.F. Spcl. Barrier Trns. Dtl. P-3
32 L.F. New Conc. Sidewalk Stem Wall See Special Detail (Dtl. C) New Type 3 S/W Ramp, Dtl. P-9
Rt. 35th Ave. Sta. 22+71 New Type 2 Ramp Det. P-9
Prop. 78" S.D.
Cst. ℄ RAMP 35-D N 82°18'12.1"E
For Joint Details & Layout See Dtl. P-5
4 L.F. Spcl. Barrier
20 L.F. Spcl. Barrier Trns. Dtl. P-3
24 L.F. New Conc. Sidewalk Stem Wall See Special Details (Dtl. C) New Type 3 S/W Ramp Dtl. 9
17.56' Rt. Ramp 35-D Sta. 26+15.40 End Barrier Trns.
New Type A Curb & Gutter h-6", Sta. C-05.10 & Det. P-6
REDUCED SIZE DO NOT SCALE
35TH AVENUE PAVING PLAN
STA. 17+00 TO STA. 23+00
I-10-2(89) PE
97



NTS

35TH AVENUE STA 17 TO STA 23

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

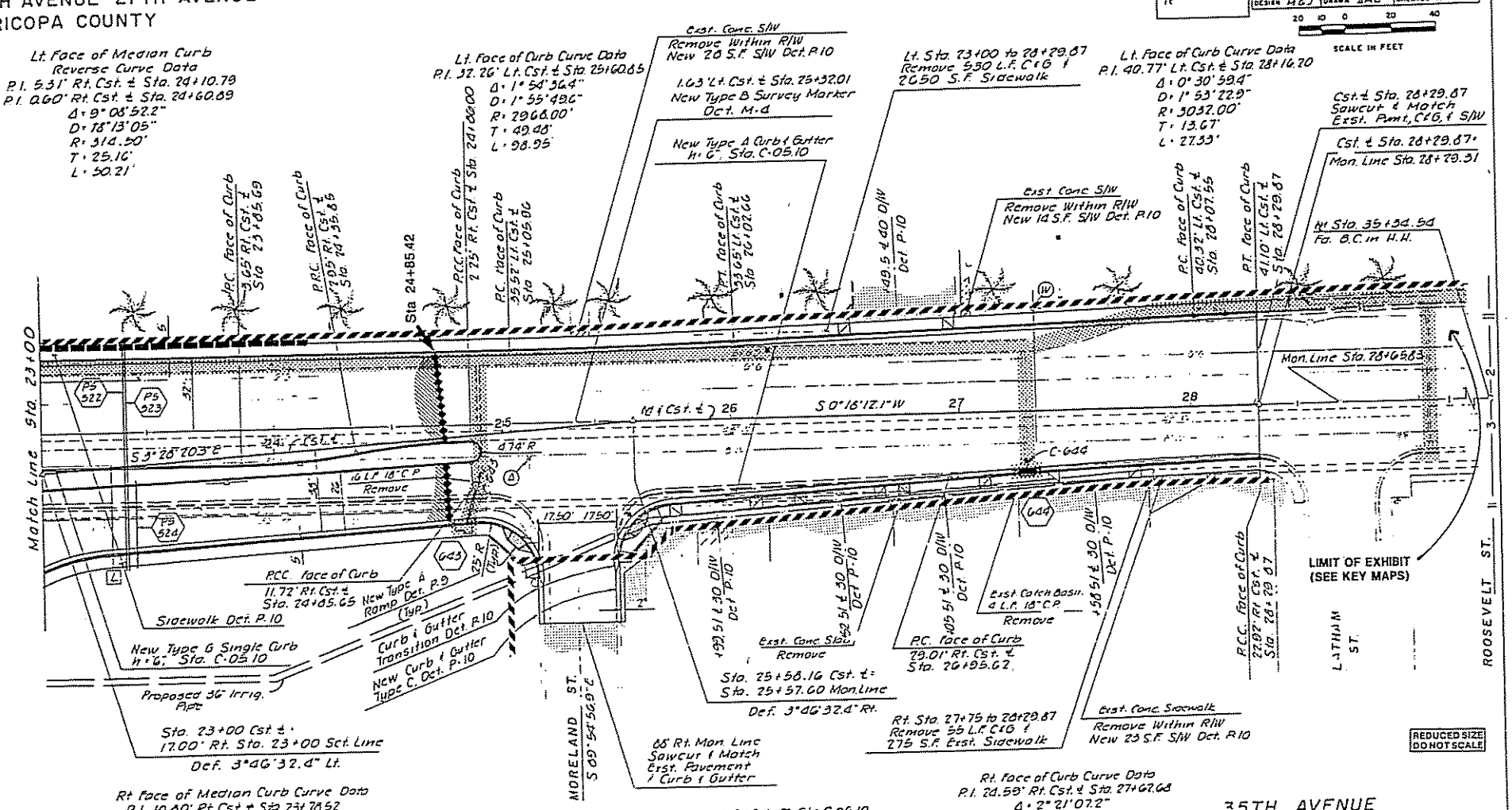
HNTB

EHRENBERG-PHOENIX HIGHWAY
39TH AVENUE-27TH AVENUE
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-2(110)	98	283	

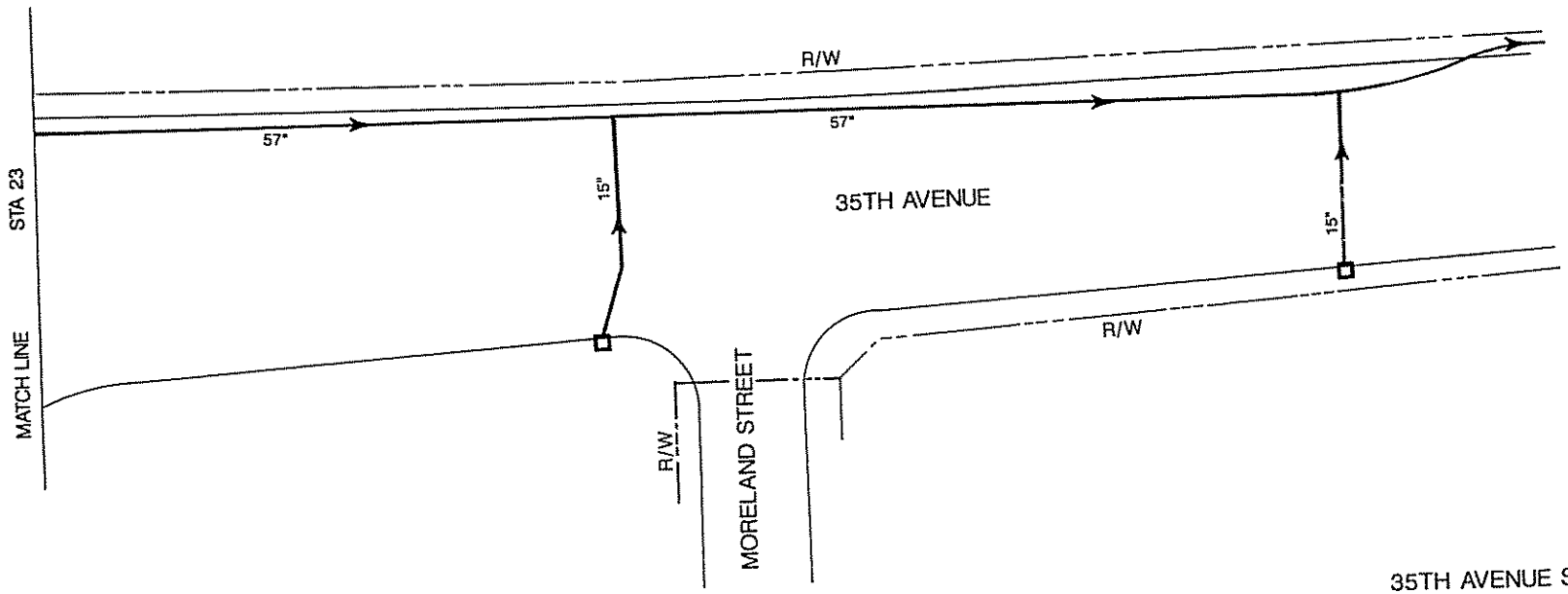
DIBBLE & ASSOCIATES, CONSULTING ENGINEERS
FOR THE CONSULTING ENGINEER
DESIGN MGJ DRAWN AHC CHECKED KHD

SCALE IN FEET 20 10 0 20 40



1,050	L.F. Type A C&G h=6" Sta. C-05.10
387	L.F. Type G Single Curb h=6", Sta. C-05.10
37	L.F. Type C C&G, Det. P.10
3,850	S.F. Sidewalk Det. P.10
1,050	S.F. Driveway Det. P.10
270	S.F. Type A Ramp Det. P.9

35TH AVENUE
PAVING PLAN
STA. 23+00 TO STA. 28+30



NTS

35TH AVENUE STA 23 TO STA 28

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

EHRENBERG - PHOENIX HIGHWAY
39TH AVENUE - 27TH AVENUE
MARICOPA COUNTY

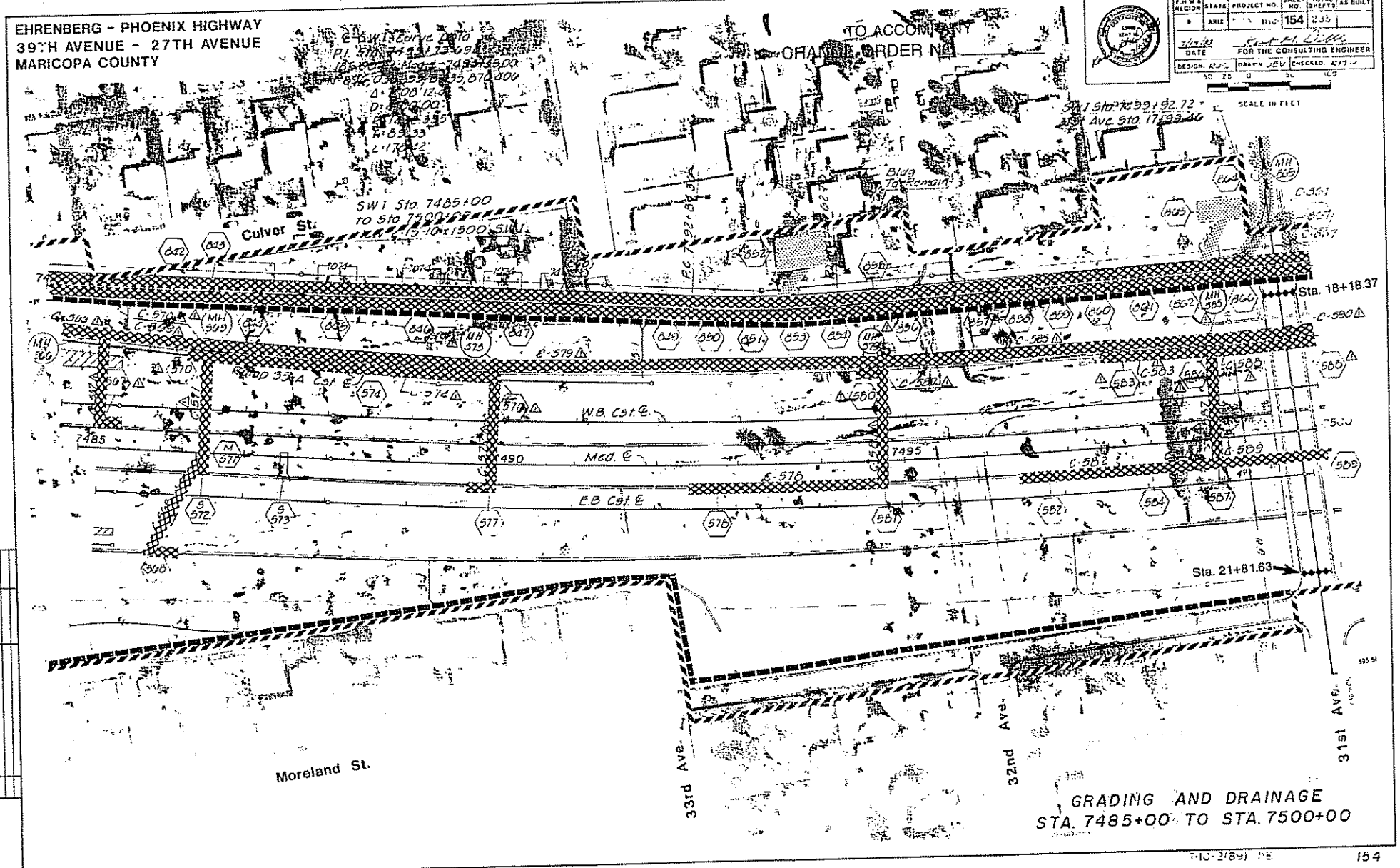
TO ACCOMPANY CHANGE ORDER No.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	[illegible]	154	[illegible]	

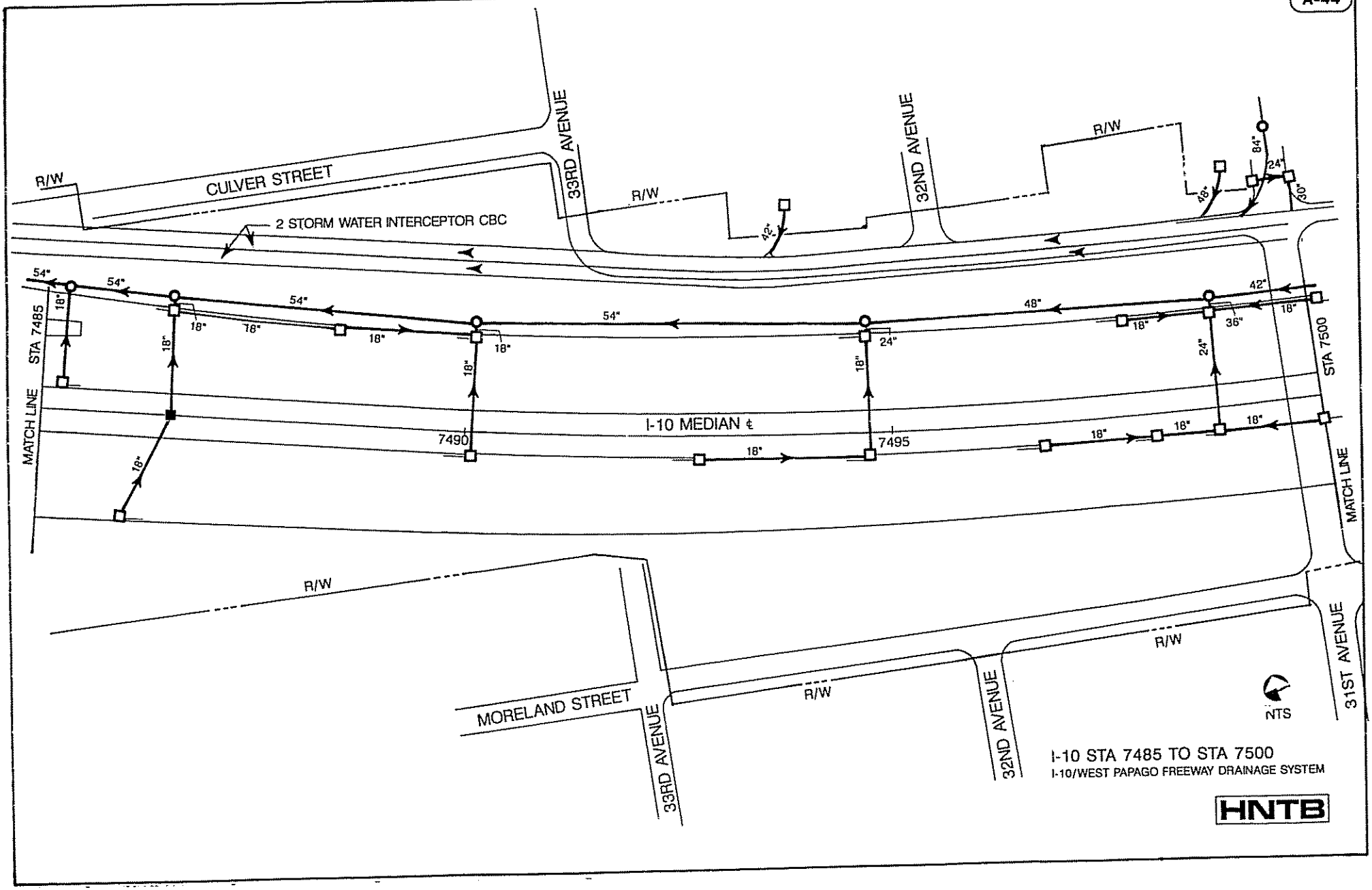
DATE — FOR THE CONSULTING ENGINEER

DESIGN [illegible] DRAWN [illegible] CHECKED [illegible]

SCALE IN FEET



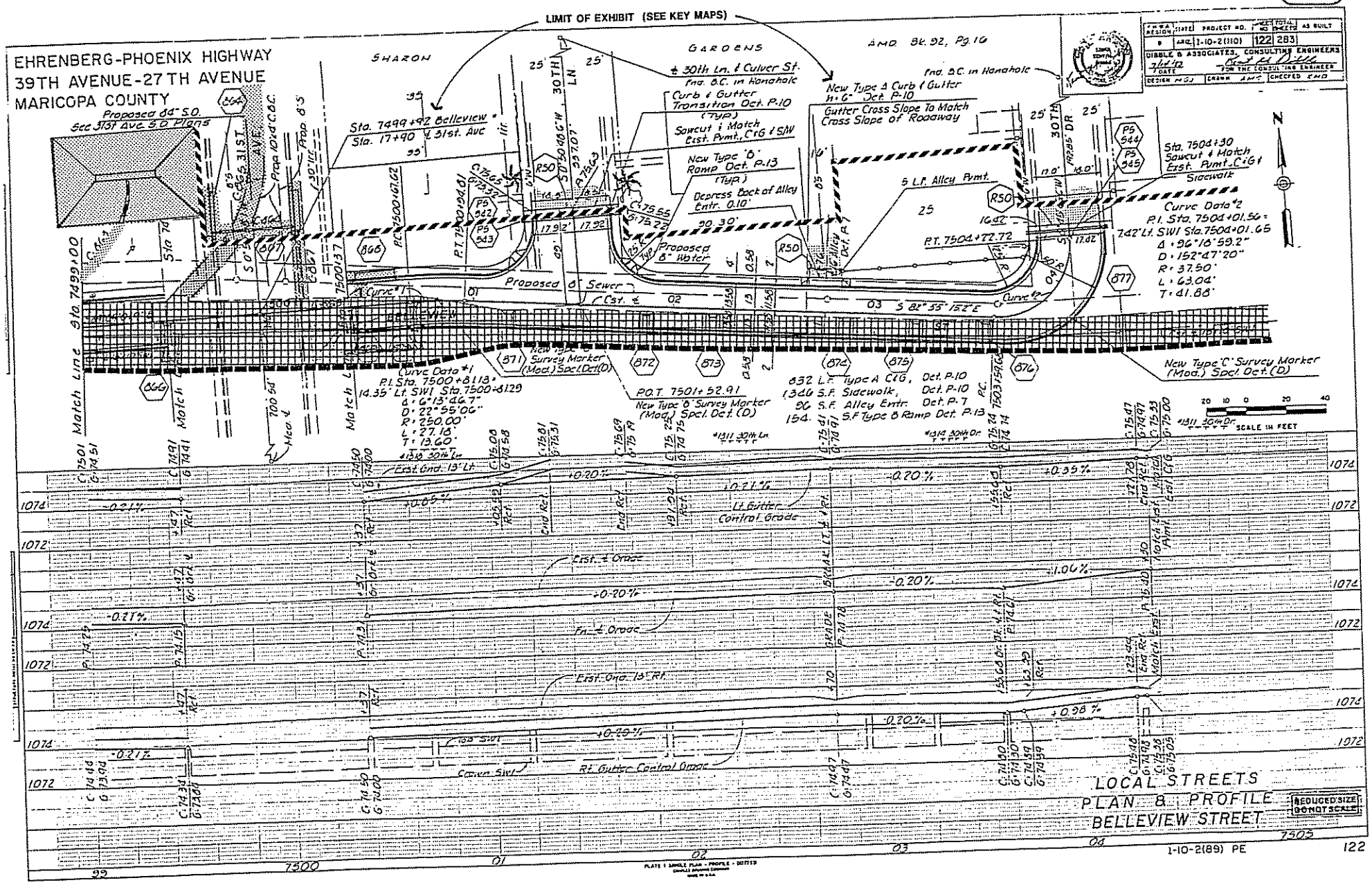
GRADING AND DRAINAGE
STA. 7485+00 TO STA. 7500+00

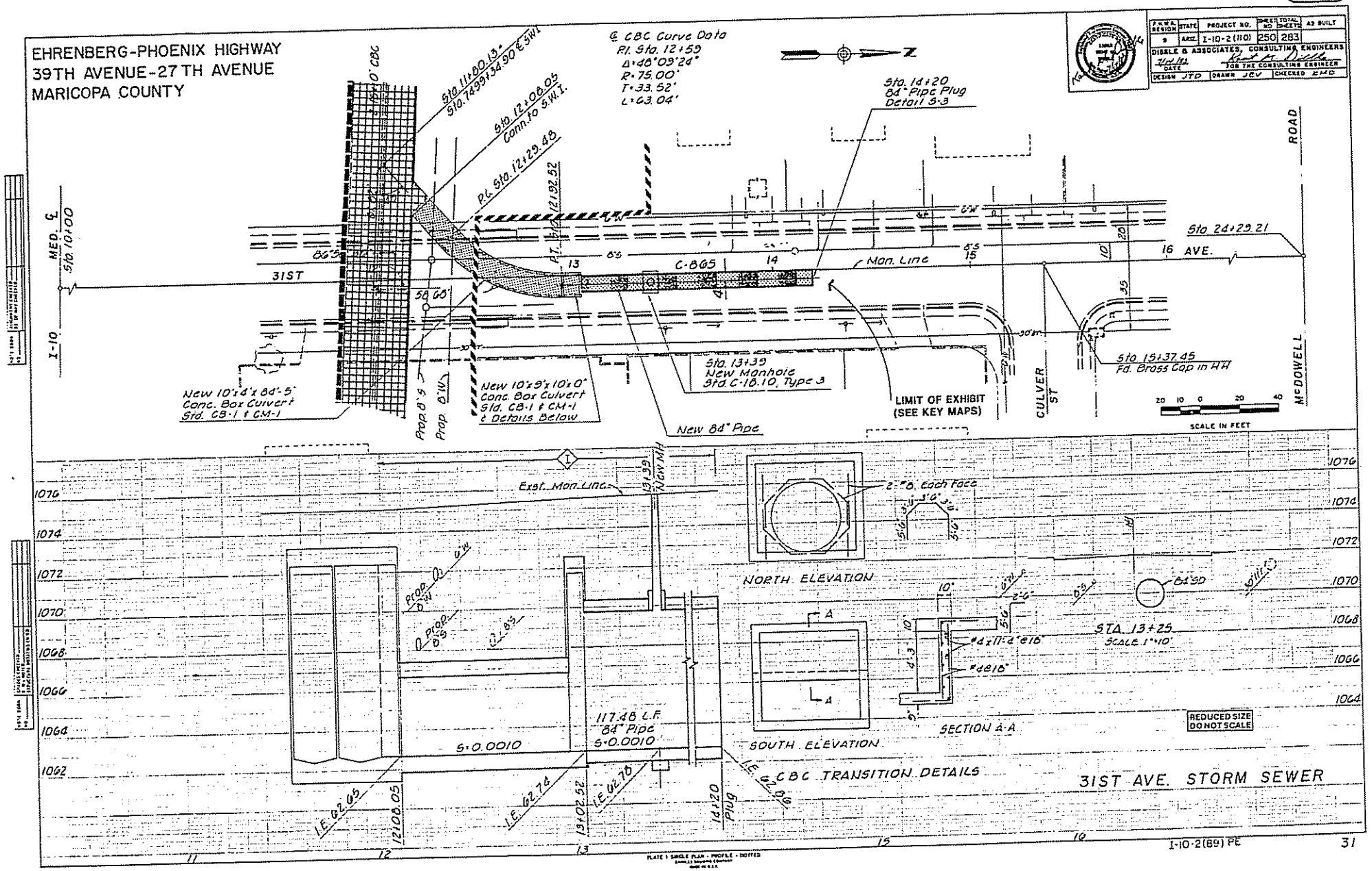


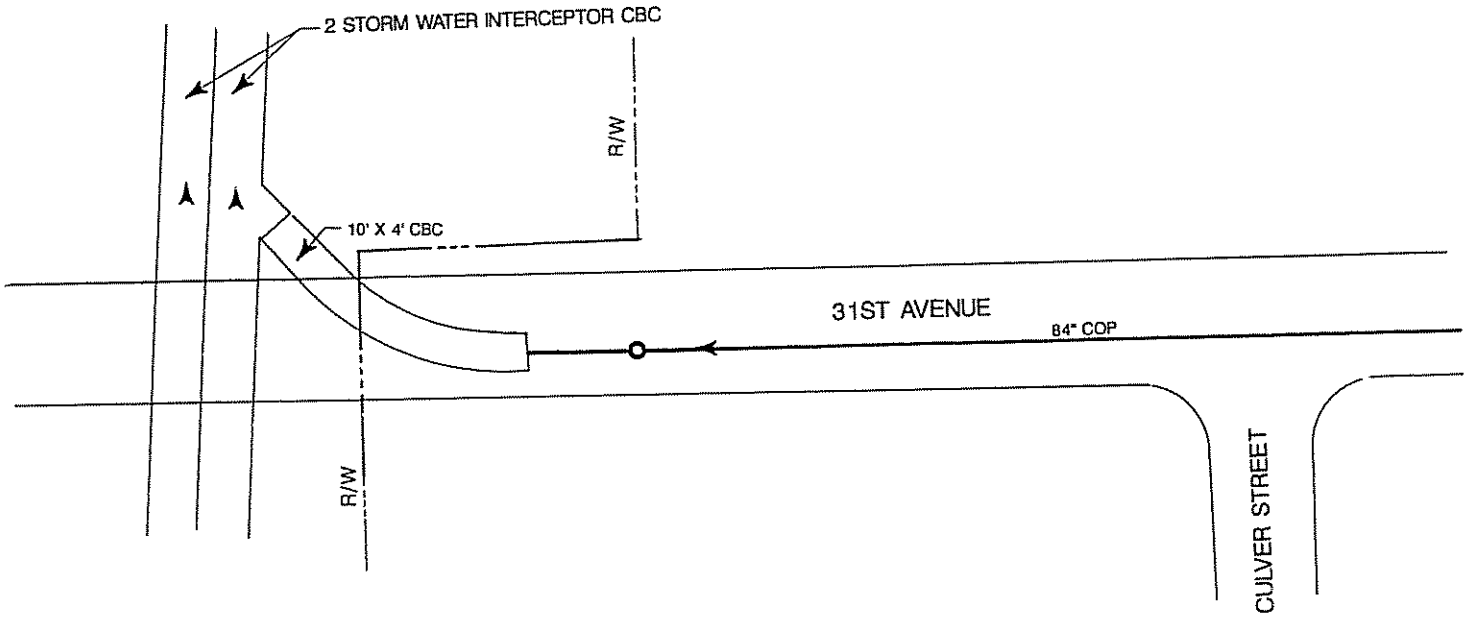
I-10 STA 7485 TO STA 7500

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


EHRENBERG-PHOENIX HIGHWAY
39TH AVENUE-27TH AVENUE
MARICOPA COUNTY
LIMIT OF EXHIBIT (SEE KEY MAPS)
SHARON
GARDENS
AMD Bk. 92, Pg. 16
Proposed 84" S.D.
See 31st Ave. S.D. Plans
Sta. 7499+92 Belleview = Sta. 17+90 ℄ 31st. Ave
℄ 30th Ln. & Culver St.
Fnd. B.C. in Handhole
Curb & Gutter Transition Det. P-10 (Typ.)
Sawcut & Match Exst. Pvmt., C&G & S/W
New Type "B" Ramp Det. P-13 (Typ.)
Depress Back of Alley Entr. 0.10'
New Type A Curb & Gutter h=6" Det. P-10
Gutter Cross Slope To Match Cross Slope of Roadway
5 L.F. Alley Pvmt.
Sta. 7504+30 Sawcut & Match Exst. Pvmt., C&G & Sidewalk
Curve Data #2
P.I. Sta. 7504+01.56 = 7.42' Lt. SW1 Sta. 7504+01.65
Δ = 96°16'59.2"
D = 152°47'20"
R = 37.50'
L = 63.04'
T = 41.88'
Proposed 8" Water
Proposed 8" Sewer
Curve #1
Curve #2
S 82°55'15.2" E
Curve Data #1
P.I. Sta. 7500+81.13 = 14.35' Lt. SW1 Sta. 7500+81.29
Δ = 6°13'46.7"
D = 22°55'06"
R = 250.00'
L = 27.18'
T = 13.60'
New Type "C" Survey Marker (Mod.) Spcl. Det. (D)
New Type "B" Survey Marker (Mod.) Spcl. Det. (D)
P.O.T. 7501+52.91
832 L.F. Type A C&G, Det. P-10
1346 S.F. Sidewalk, Det. P-10
96 S.F. Alley Entr. Det. P-7
154 S.F. Type B Ramp Det. P-13
Match Line Sta. 7499+00
Match Line
Exst. Gnd. 13' Lt.
Lt. Gutter Control Grade
Exst. ℄ Grade
Fn. ℄ Grade
Exst. Gnd. 13' Rt.
Rt. Gutter Control Grade
Crown Sw1
SCALE IN FEET
LOCAL STREETS
PLAN & PROFILE
BELLEVIEW STREET
REDUCED SIZE DO NOT SCALE
1-10-2(89) PE
122


EHRENBERG-PHOENIX HIGHWAY
39TH AVENUE-27TH AVENUE
MARICOPA COUNTY
℄ CBC Curve Data
P.I. Sta. 12+59
Δ=48°09'24"
R=75.00'
T=33.52'
L=63.04'
Sta. 11+80.13
Sta. 7499+34.90 E S.W.I.
Sta. 12+08.05 Conn. to S.W.I.
P.C. Sta. 12+29.48
P.T. 12+92.52
Sta. 14+20 84" Pipe Plug Detail S-3
Sta. 24+29.21
16 AVE.
MED. ℄ Sta. 10+00
31ST
I-10
C-805
Mon. Line
Sta. 13+39 New Manhole Std. C-18.10, Type 3
New 10'x4'x84'-5' Conc. Box Culvert Std. CB-1 & CM-1
New 10'x9'x10'0" Conc. Box Culvert Std. CB-1 & CM-1 & Details Below
New 84" Pipe
LIMIT OF EXHIBIT (SEE KEY MAPS)
CULVER ST
Sta. 15+37.45 Fd. Brass Cap in HH
McDOWELL ROAD
SCALE IN FEET
Exist. Mon. Line
NEW MH
NORTH ELEVATION
SOUTH ELEVATION
SECTION A-A
STA. 13+25 SCALE 1"=10'
117.48 L.F. 84" Pipe S=0.0010
S=0.0010
I.E. 62.05
I.E. 62.74
I.E. 62.70
I.E. 62.90
CBC TRANSITION DETAILS
31ST AVE. STORM SEWER
REDUCED SIZE DO NOT SCALE
I-10-2(89) PE
31

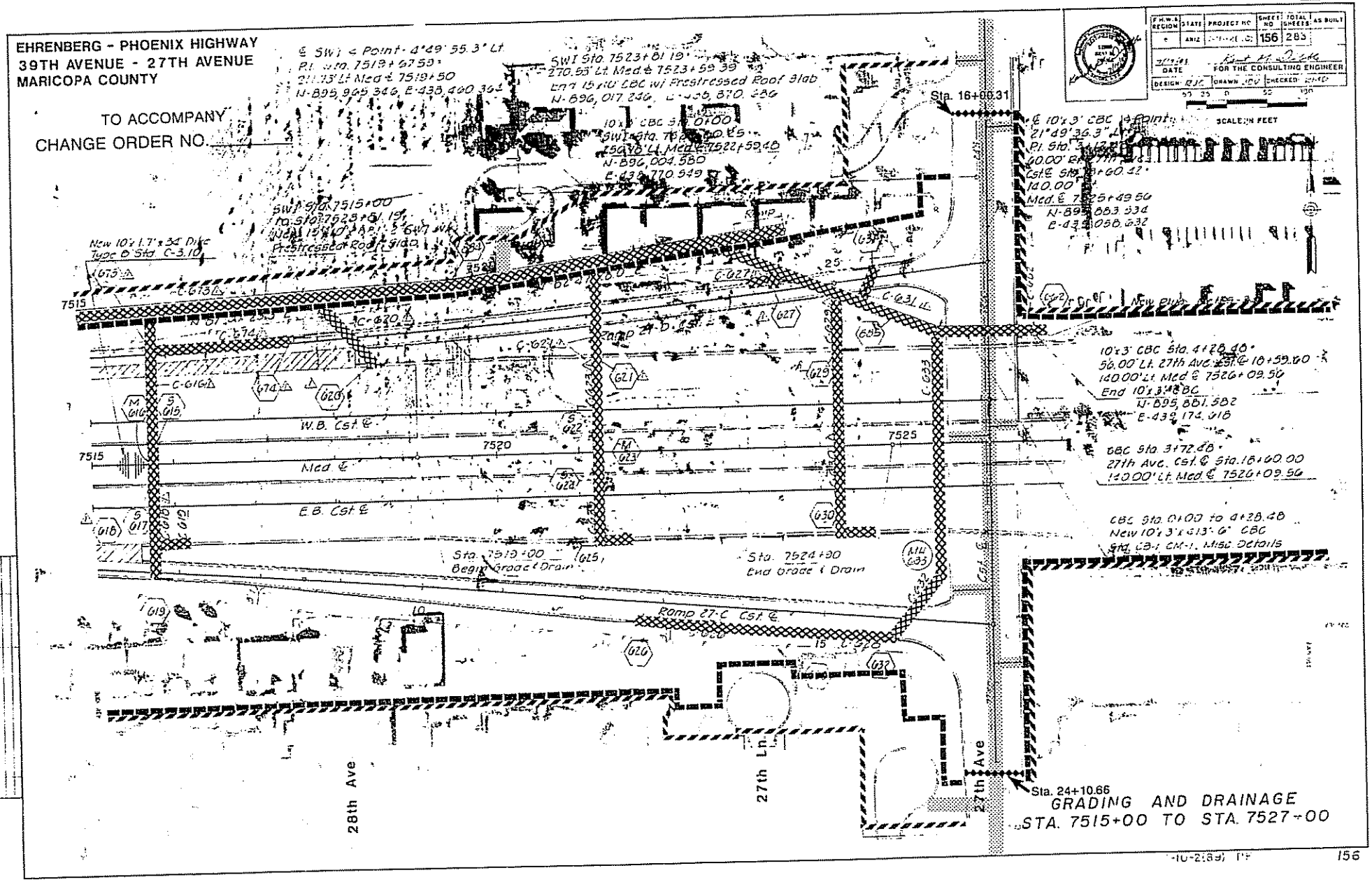


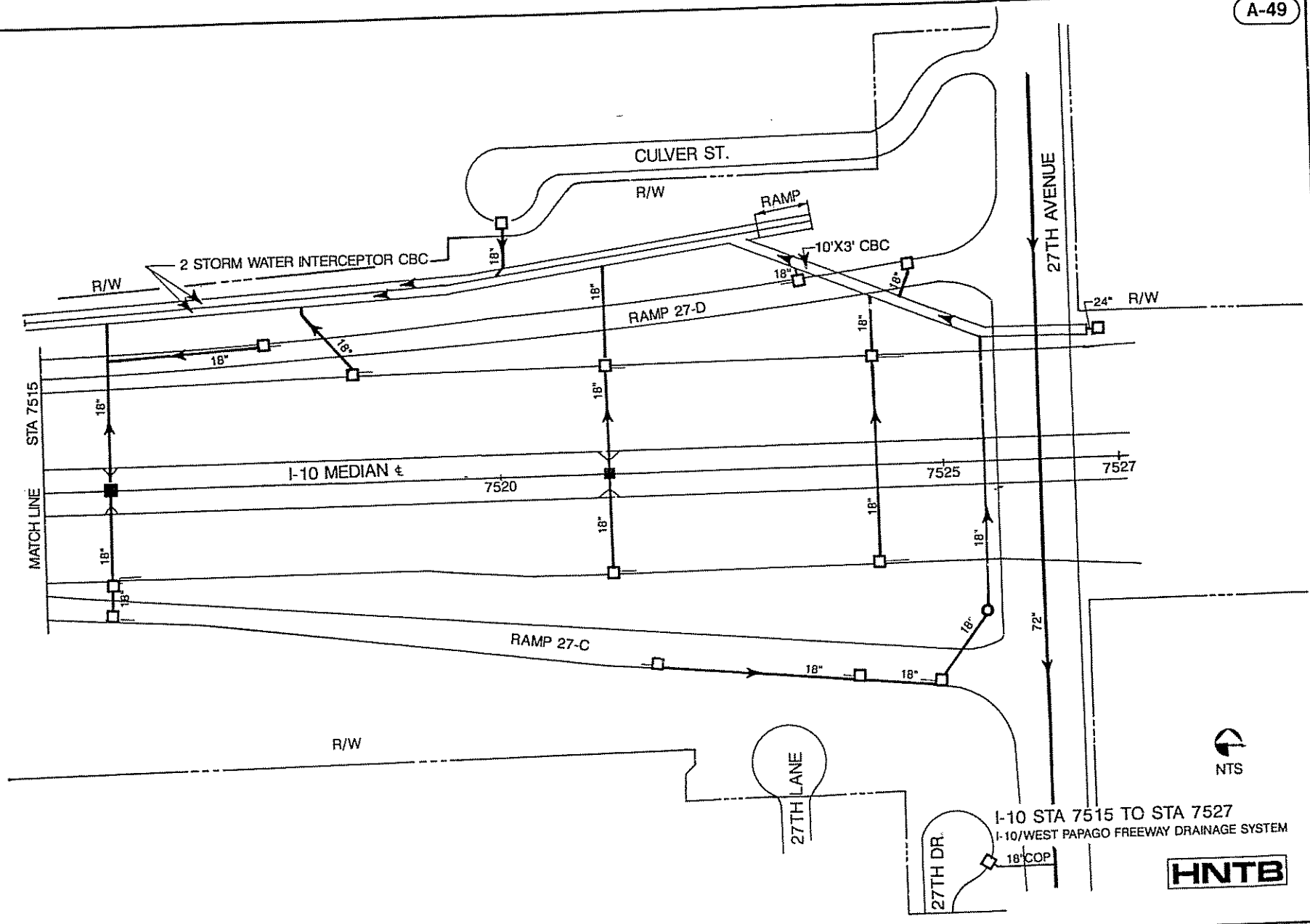
NTS

31ST AVENUE STORM SEWER STA 12 TO STA 16

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


EHRENBERG - PHOENIX HIGHWAY
39TH AVENUE - 27TH AVENUE
MARICOPA COUNTY
TO ACCOMPANY
CHANGE ORDER NO.
SCALE IN FEET
Sta. 16+00.31
Sta. 24+10.66
W.B. Cst. ℄
Med. ℄
E.B. Cst. ℄
Ramp 27-C Cst. ℄
Sta. 7519+00 Begin Grade & Drain
Sta. 7524+90 End Grade & Drain
28th Ave
27th Ln.
27th Ave
7515
7520
7525
GRADING AND DRAINAGE
STA. 7515+00 TO STA. 7527+00



I-10 STA 7515 TO STA 7527

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

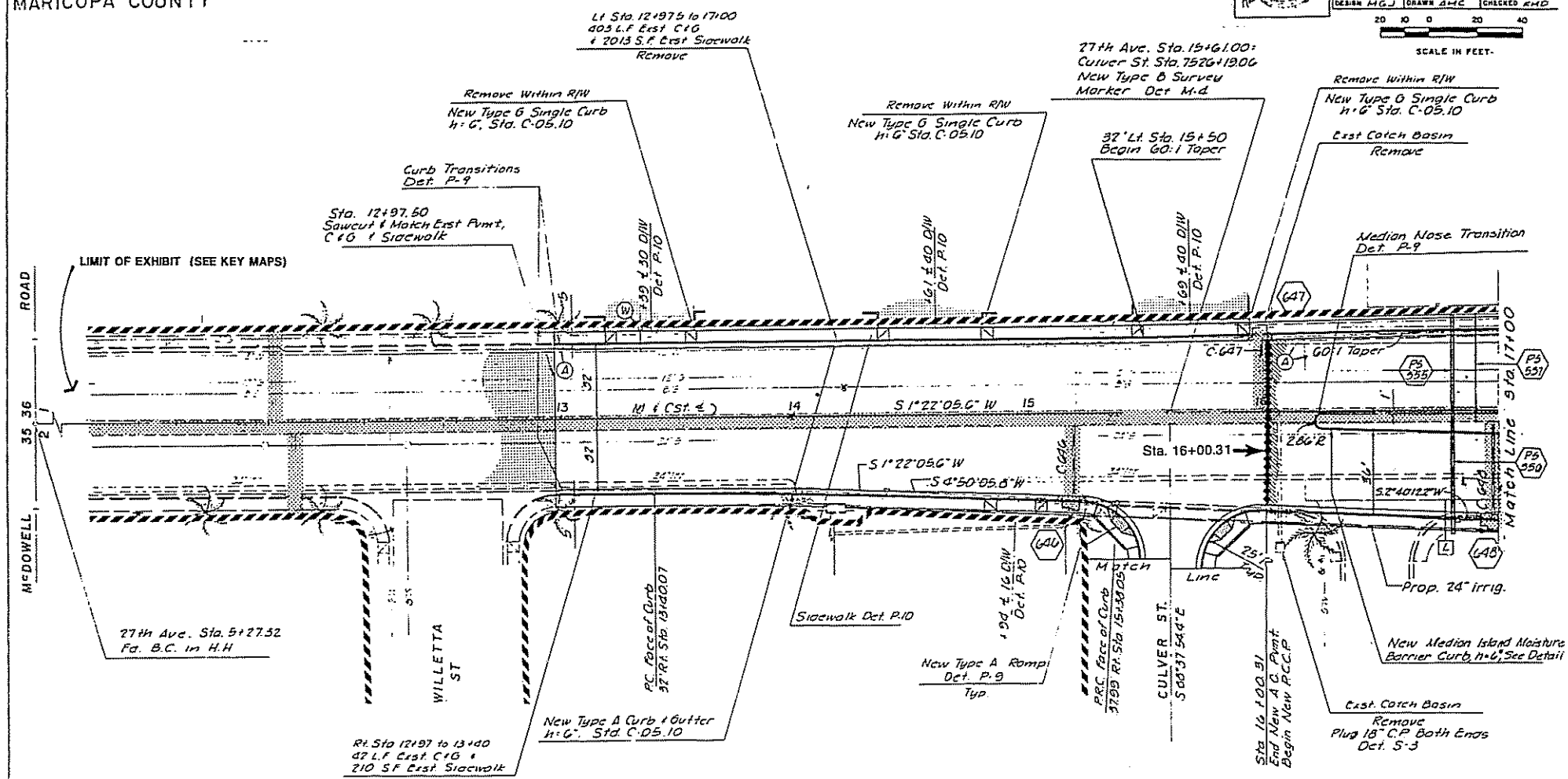
EHRENBERG - PHOENIX-HIGHWAY
39TH AVENUE ~~27TH AVENUE~~
MARICOPA COUNTY

TO ACCOMPANY
CHANGE ORDER NO._____

FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-2(110)	108	283	

DIBBLE & ASSOCIATES, CONSULTING ENGINEER
7/21/82 — DATE — FOR THE CONSULTING ENGINEER
DESIGN MGJ | DRAWN AHC | CHECKED RMD

SCALE IN FEET: 20 10 0 20 40

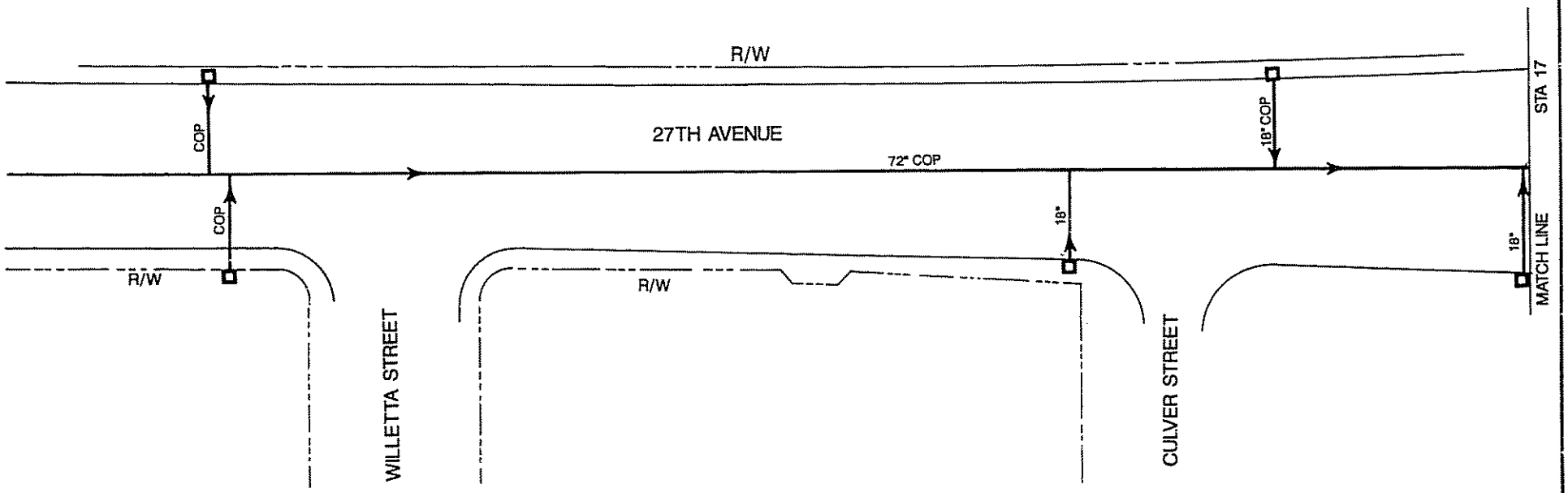


Rt Face of Curb Curve Data
P.I. 32' Rt Sta. 14+39.15
Δ = 3°28'00.2"
D = 1°45'00"
R = 3274.045'
T = 99.06'
L = 198.10'

Rt Face of Curb Curve Data
P.I. 46.72' Rt Sta. 16+82.13
Δ = 2°09'53.6"
D = 0°45'00"
R = 7639.437'
T = 144.34'
L = 288.65'

787	L.F. Type A h=6" C&G, Std. C-05.10
159	L.F. Median Island Moisture Barrier Curb, See Detail
830	S.F. Driveway Det. P-10
2,026	S.F. Sidewalk Det. P-10
270	S.F. Type A Ramp Det. P-9

27TH AVENUE
PAVING PLAN
STA. 12+97 TO STA. 17+00



NTS

27TH AVENUE STA 11 TO STA 17

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

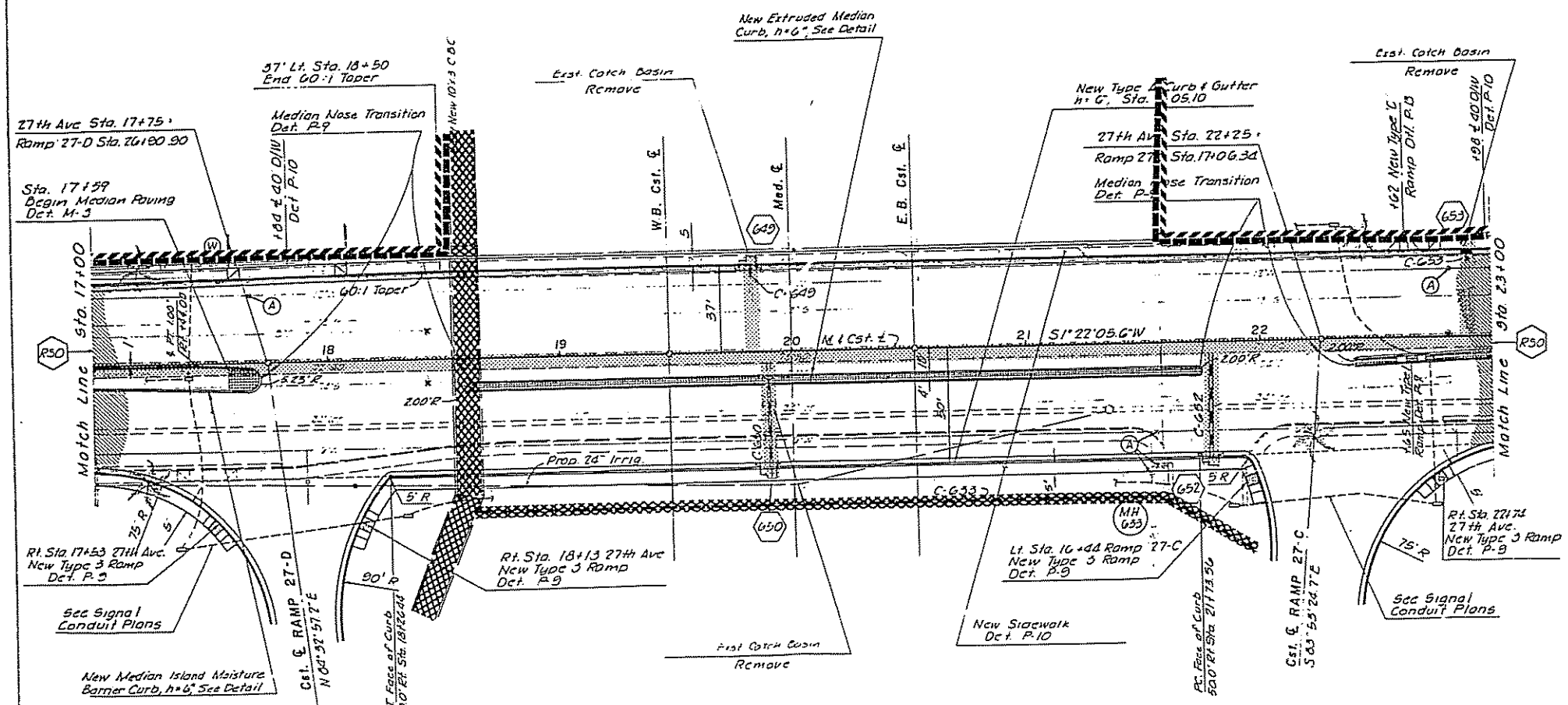
EHRENBERG - PHOENIX HIGHWAY
39TH AVENUE - 27TH AVENUE
MARICOPA COUNTY

TO ACCOMPANY
CHANGE ORDER NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL NO. SHEETS	AS BUILT
9	ARIZ.	I-10-2(110)	109	283	

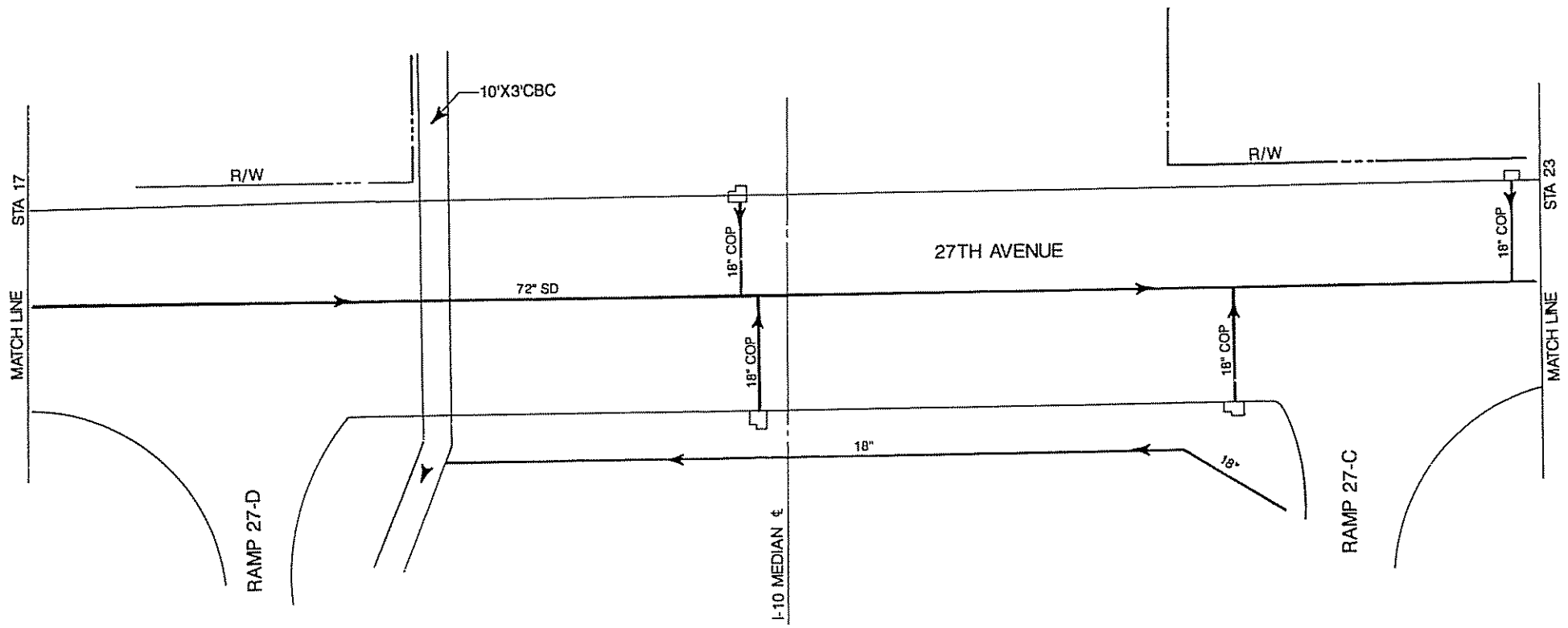
DIBBLE & ASSOCIATES, CONSULTING ENGINEERS
FOR THE CONSULTING ENGINEER
DESIGN M.G.J. DRAWN J.H.C. CHECKED R.M.D.

20 10 0 20 40
SCALE IN FEET



692	L.F.	Extruded Median Curb, See Detail
374	S.F.	Sidewalk Ramp
1266	L.F.	Type A C&G, h=6" Sta. C-05.10
156	L.F.	Median Island Moisture Barrier Curb, See Detail
385	S.F.	Driveway Det. P-10
4,760	S.F.	Sidewalk Det. P-10
121	S.Y.	Median Paving Dtl. M-3

27TH AVENUE
PAVING PLAN
STA. 17+00 TO STA. 23+00



NTS

27TH AVENUE STA 17 TO STA 23

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

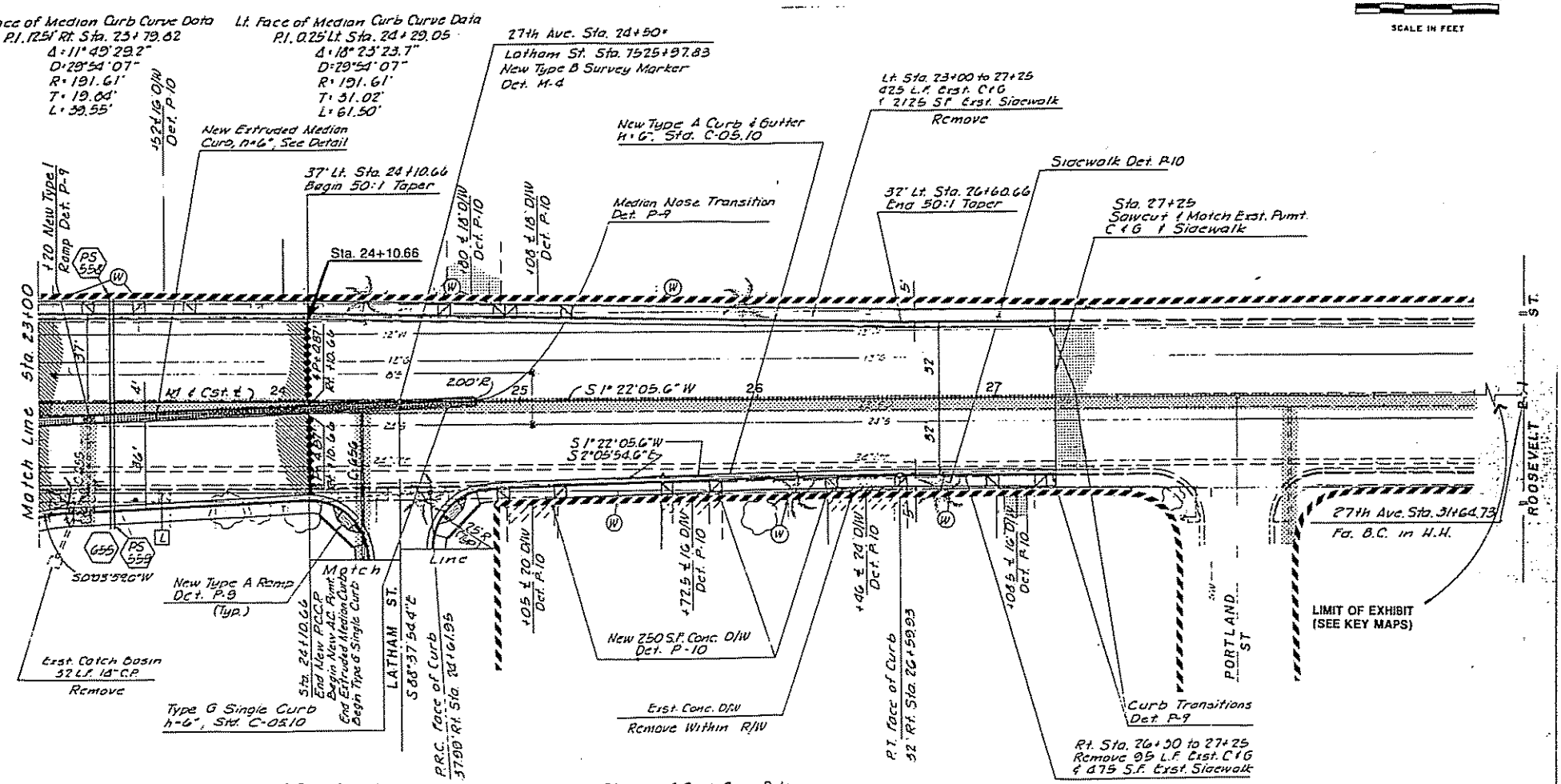
EHRENBERG - PHOENIX HIGHWAY
39TH AVENUE - 27TH AVENUE
MARICOPA COUNTY

TO ACCOMPANY
CHANGE ORDER NO._____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-2(110)	110	283	

DIBBLE & ASSOCIATES, CONSULTING ENGINEERS
DATE — FOR THE CONSULTING ENGINEER
DESIGN MGJ | DRAWN AMC | CHECKED RMD

SCALE IN FEET 20 10 0 20 40

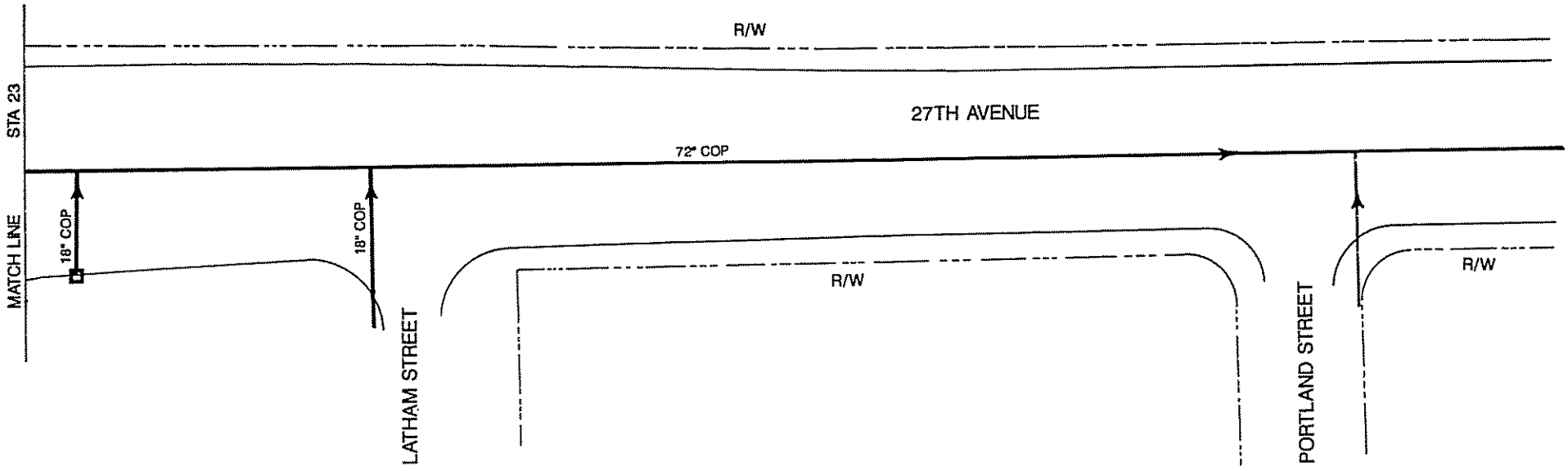


Rt. Face of Curb Curve Data
P.I. 46.72' Rt. Sta. 23+17.87
Δ = 2°09'53.6"
D = 0°45'00"
R = 7639.437'
T = 144.34'
L = 288.65'

Rt. Face of Curb Curve Data
P.I. 32' Rt. Sta. 25+60.85
Δ = 3°28'00.2"
D = 1°45'00"
R = 3274.045'
T = 99.08'
L = 198.10'

45	S.Y. Median Paving Dtl. M-3
222	L.F. Extruded Median Curb, See Detail
846	L.F. Type A C&G, h=6" Std. C-05.10
144	L.F. Type G Single Curb, Std. C-05.10
1,355	S.F. Driveway Dtl. P-10
2,845	S.F. Sidewalk Dtl. P-10
300	S.F. Sidewalk Ramp

27TH AVENUE
PAVING PLAN
STA. 23+00 TO STA. 27+25



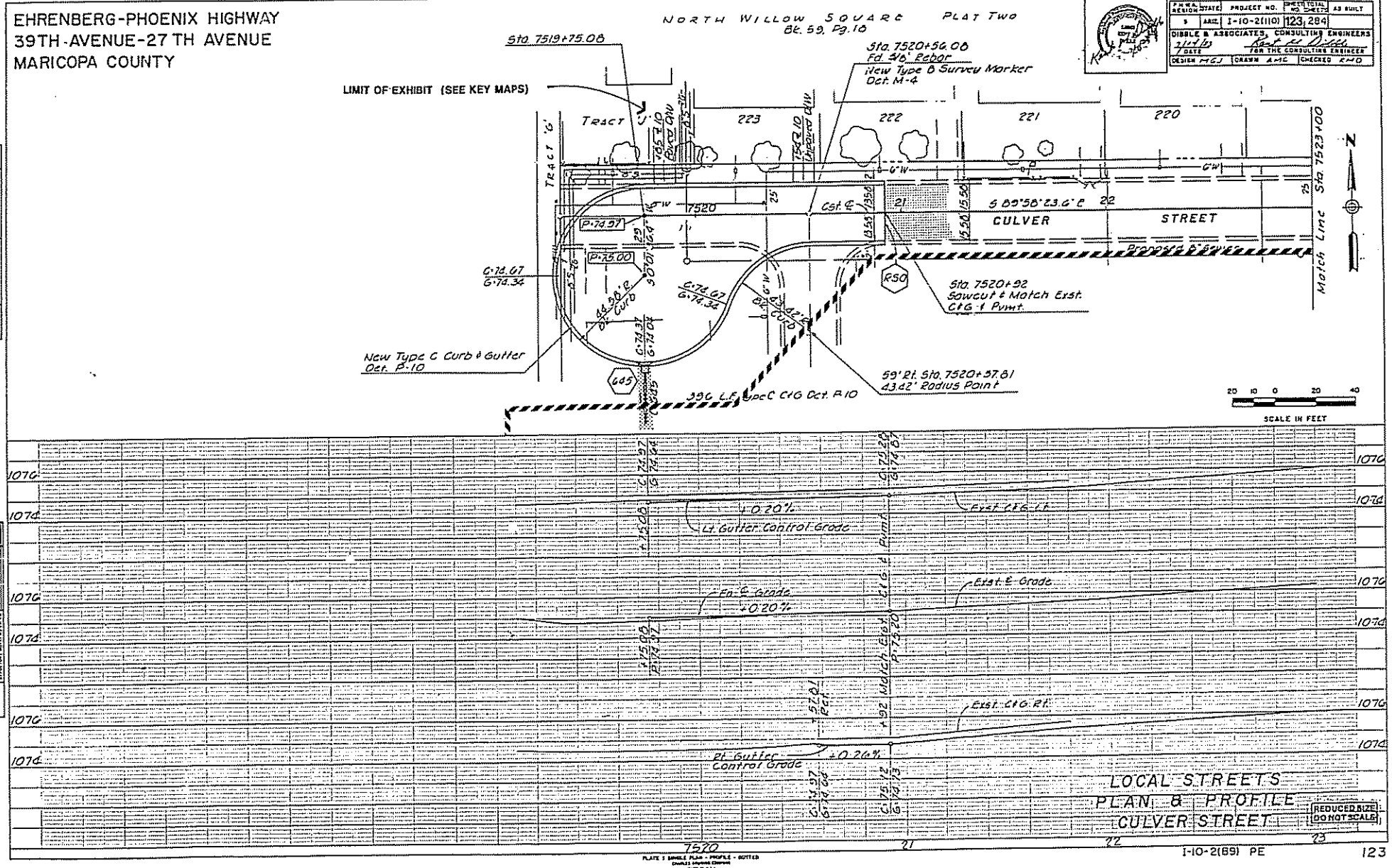
NTS

27TH AVENUE STA 23 TO STA 29

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

EHRENBERG-PHOENIX HIGHWAY
39TH-AVENUE-27TH AVENUE
MARICOPA COUNTY



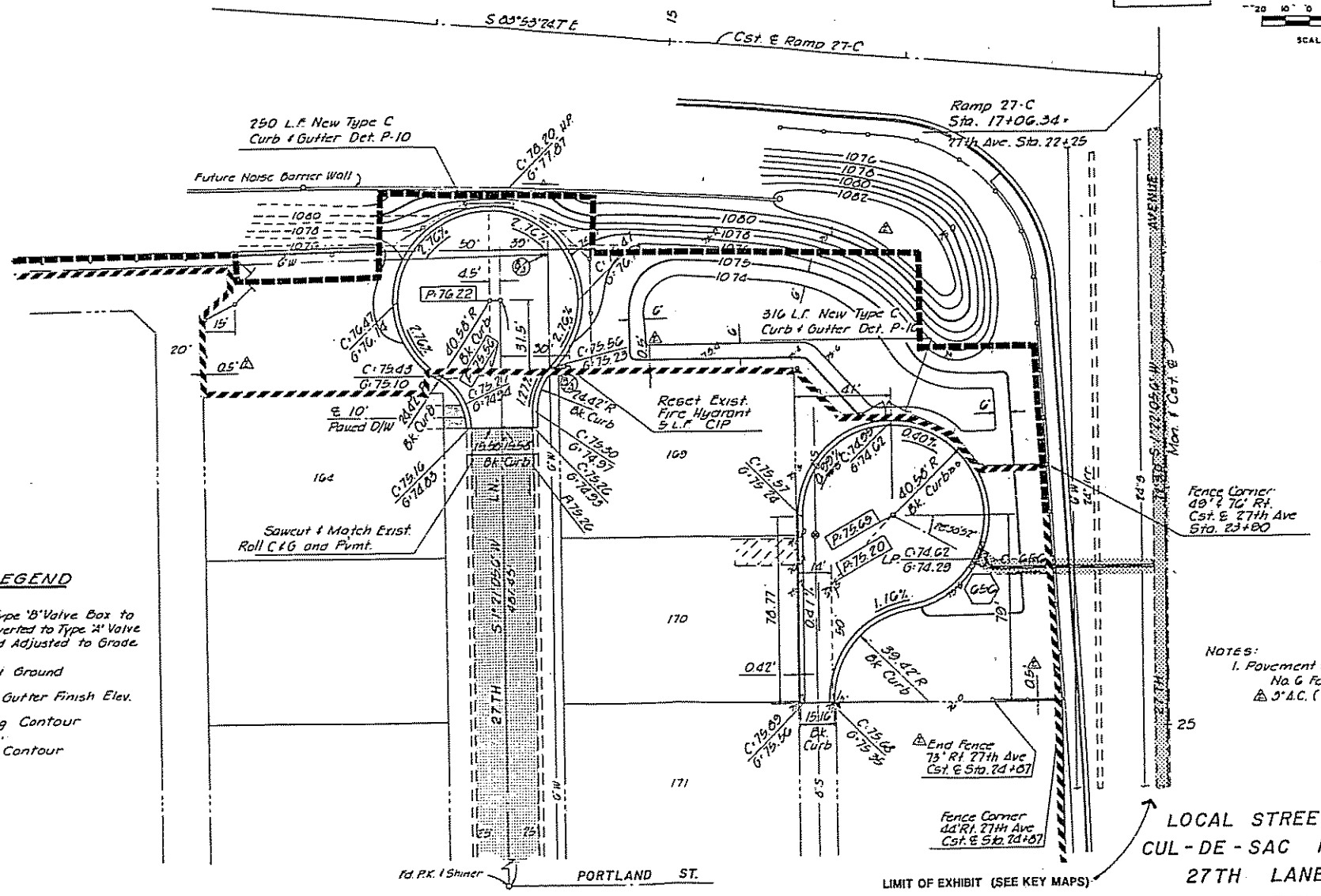
EHRENBERG - PHOENIX HIGHWAY
39TH AVENUE - 27TH AVENUE
MARICOPA COUNTY

TO ACCOMPANY
CHANGE ORDER NO._____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-2(110)	130	283	

DIBBLE & ASSOCIATES, CONSULTING ENGINEERS
DATE — FOR THE CONSULTING ENGINEER
DESIGN MOJ — DRAWN AMC — CHECKED KMO

SCALE IN FEET



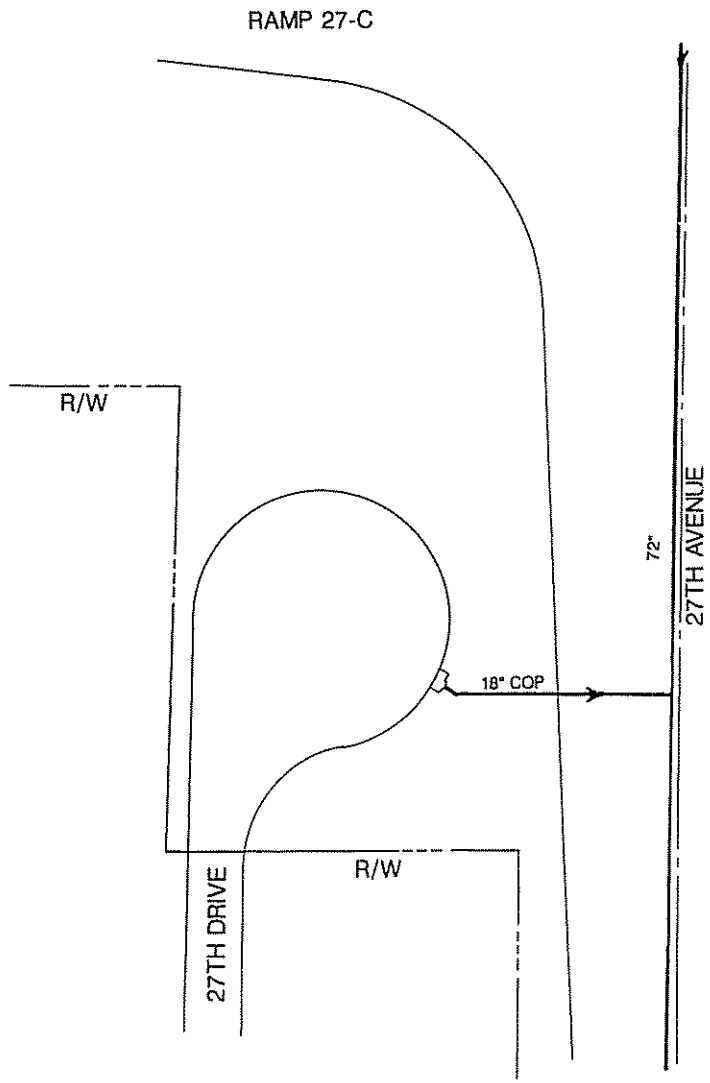
LOCAL STREETS
CUL-DE-SAC PLAN
27TH LANE

LEGEND

- Exist. Type 'B' Valve Box to be Converted to Type 'A' Valve Box and Adjusted to Grade.
- 70.4 Natural Ground
- C:75.39 / G:75.06 Curb & Gutter Finish Elev.
- ----- Existing Contour
- —— Finish Contour

NOTES:
1. Pavement Structural Sections No. 6 For Local Street
△ 3" A.C. (3/4" Mix.) For Alley

I-10-2(89) PE



NTS

27TH DRIVE CUL-DE-SAC

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

DRAINAGE

MAINTENANCE EXHIBIT

I-10 Segment B

27th Avenue to 15th Avenue

(I-17) Grant Street to Verde Lane

This exhibit defines the areas of maintenance responsibility for the Arizona Department of Transportation and the City of Phoenix. The delineated areas apply to the responsibilities for maintenance of stormwater drainage facilities.

REVISED 8-3-93

City of Phoenix Maintained Facilities

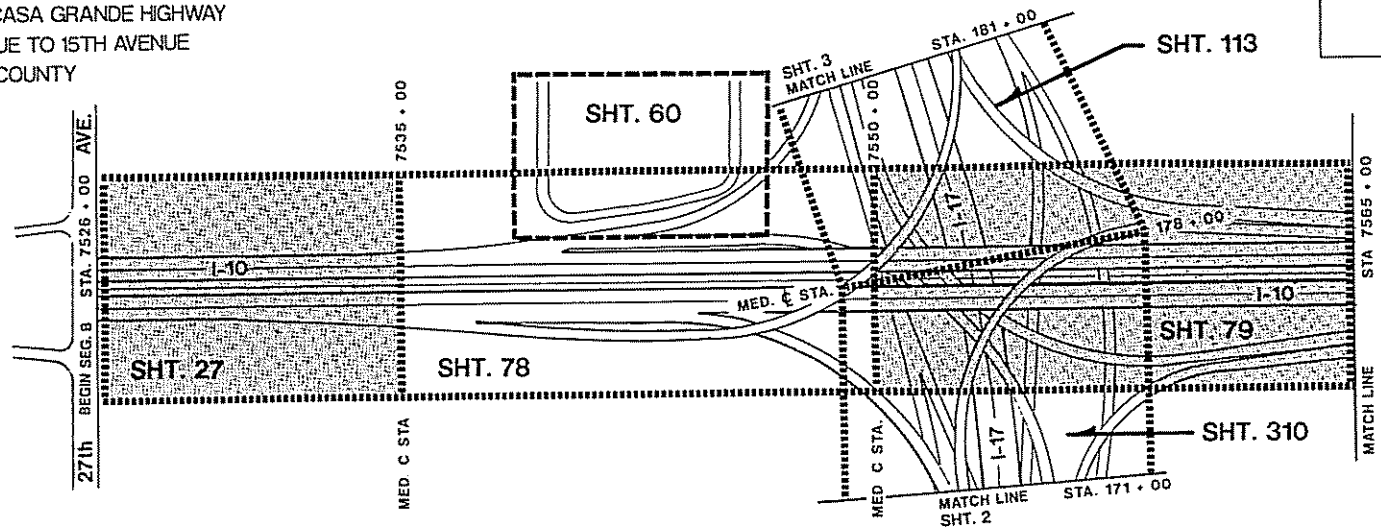
Department of Transportation Maintained Facilities

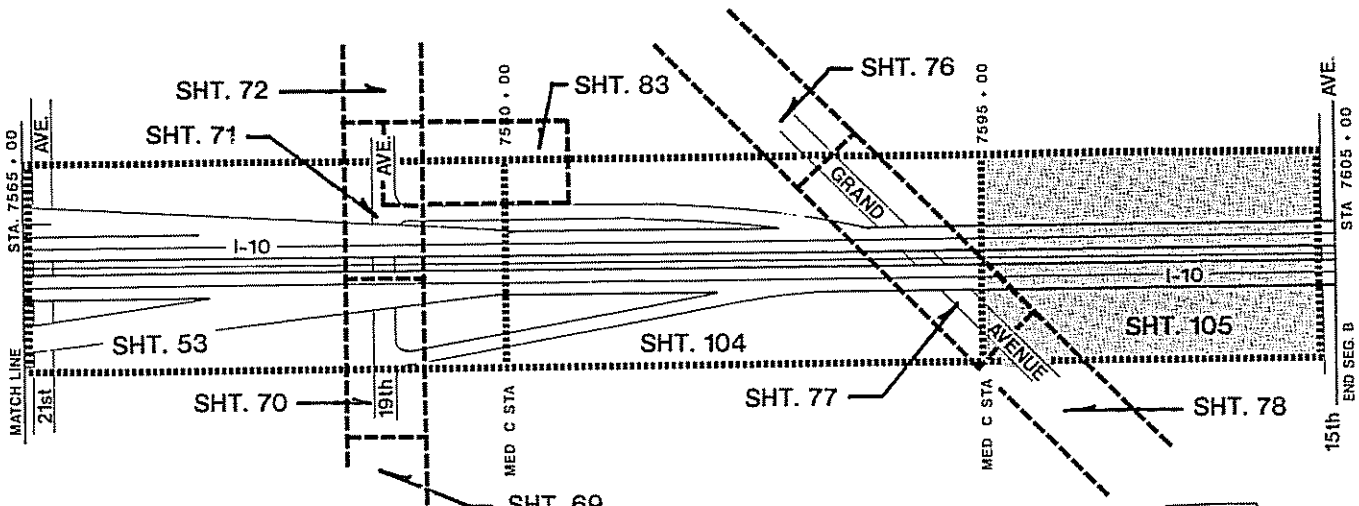
B-1

EHRENBERG - PHOENIX HIGHWAY
PHOENIX - CASA GRANDE HIGHWAY
27TH AVENUE TO 15TH AVENUE
MARICOPA COUNTY

FHWA REGION	STATE	PROJECT NO	SHEET NO.	TOTAL NO. SHEETS	AS BUILT
9	AZ		1		

DATE | FOR THE CONSULTING ENGINEER
DESIGN | DRAWN | CHECKED





SHEETS WITH ADOT MAINTENANCE ONLY
(NOT INCLUDED IN THIS EXHIBIT)

REDUCED SIZE DO NOT SCALE

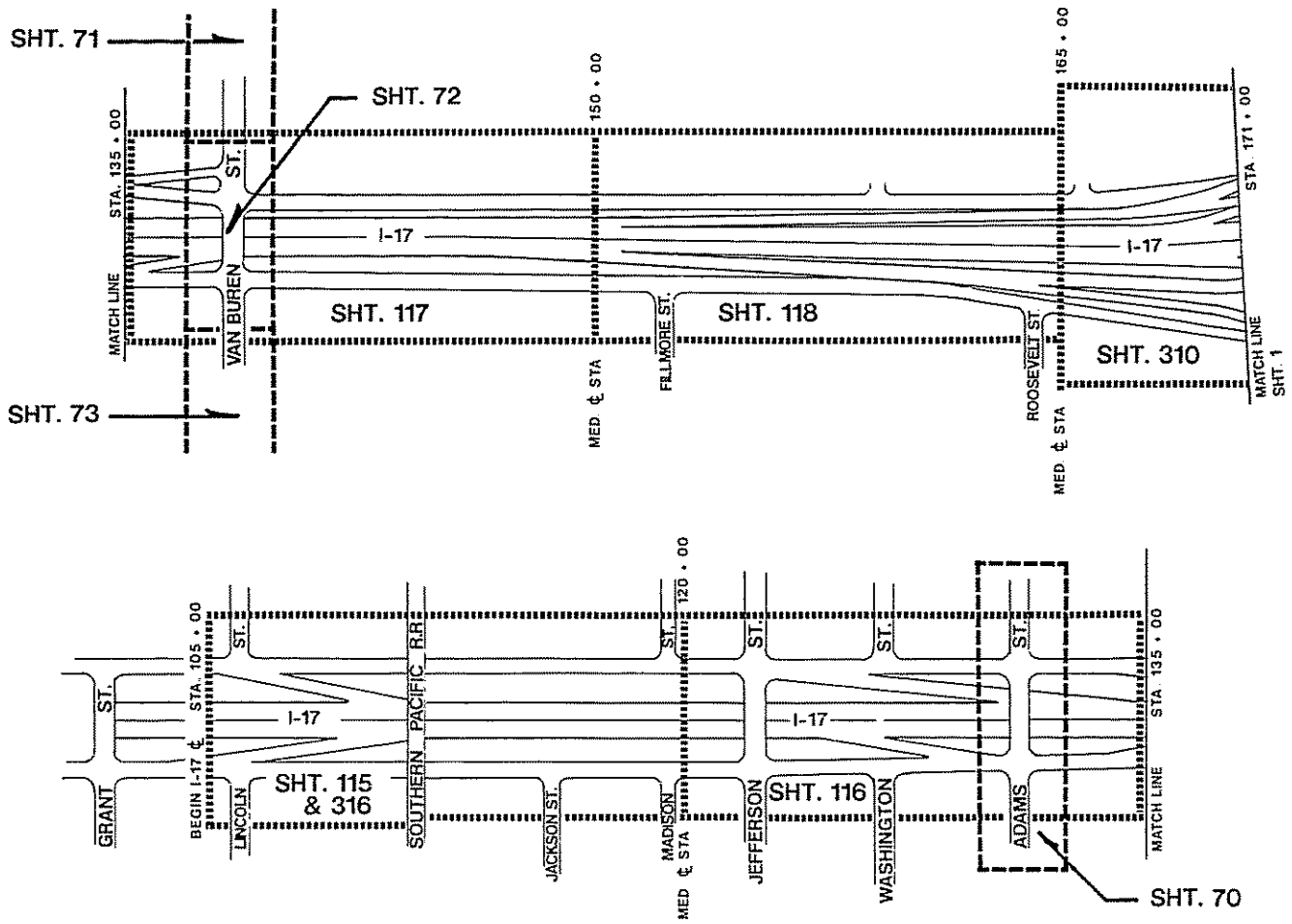
KEY MAP

STA. 7576 + 00
TO STA. 7605 + 00

PHOENIX - CORDES JUNCTION HIGHWAY
GRANT STREET TO VERDE LANE
MARICOPA COUNTY

FHWA REGION	STATE	PROJECT NO	SHEET NO	TOTAL NO SHEETS	AS BUILT
9	AZ		2		

DATE FOR THE CONSULTING ENGINEER
DESIGN DRAWN CHECKED



N

REDUCED SIZE DO NOT SCALE

KEY MAP

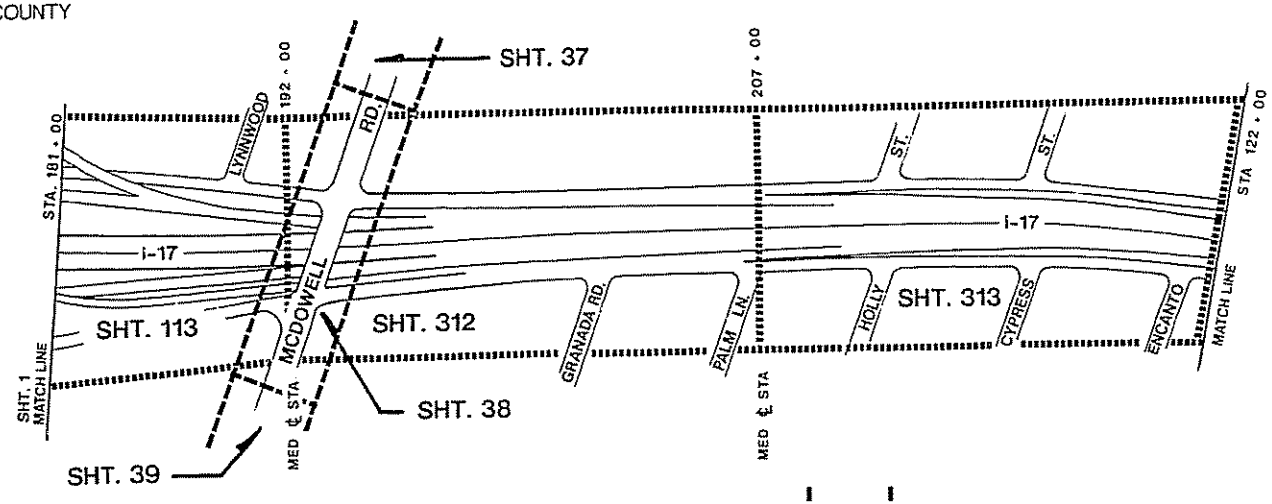
STA. 105 + 00
TO STA. 171 + 00

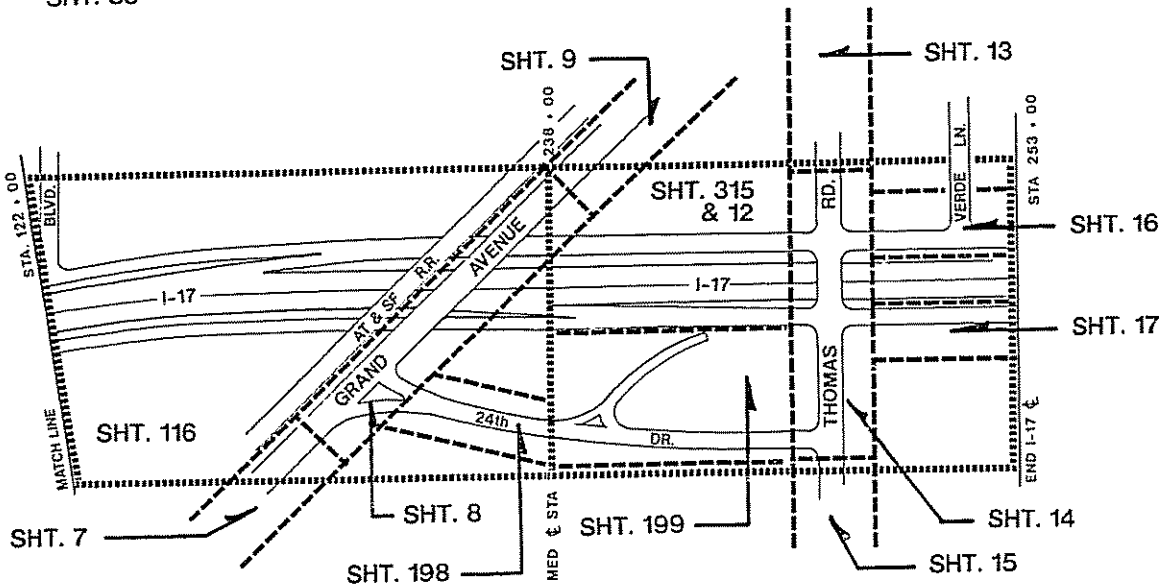
FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ		3		

DATE FOR THE CONSULTING ENGINEER

DESIGN DRAWN CHECKED

PHOENIX - CORDES JUNCTION HIGHWAY
GRANT STREET TO VERDE LANE
MARICOPA COUNTY





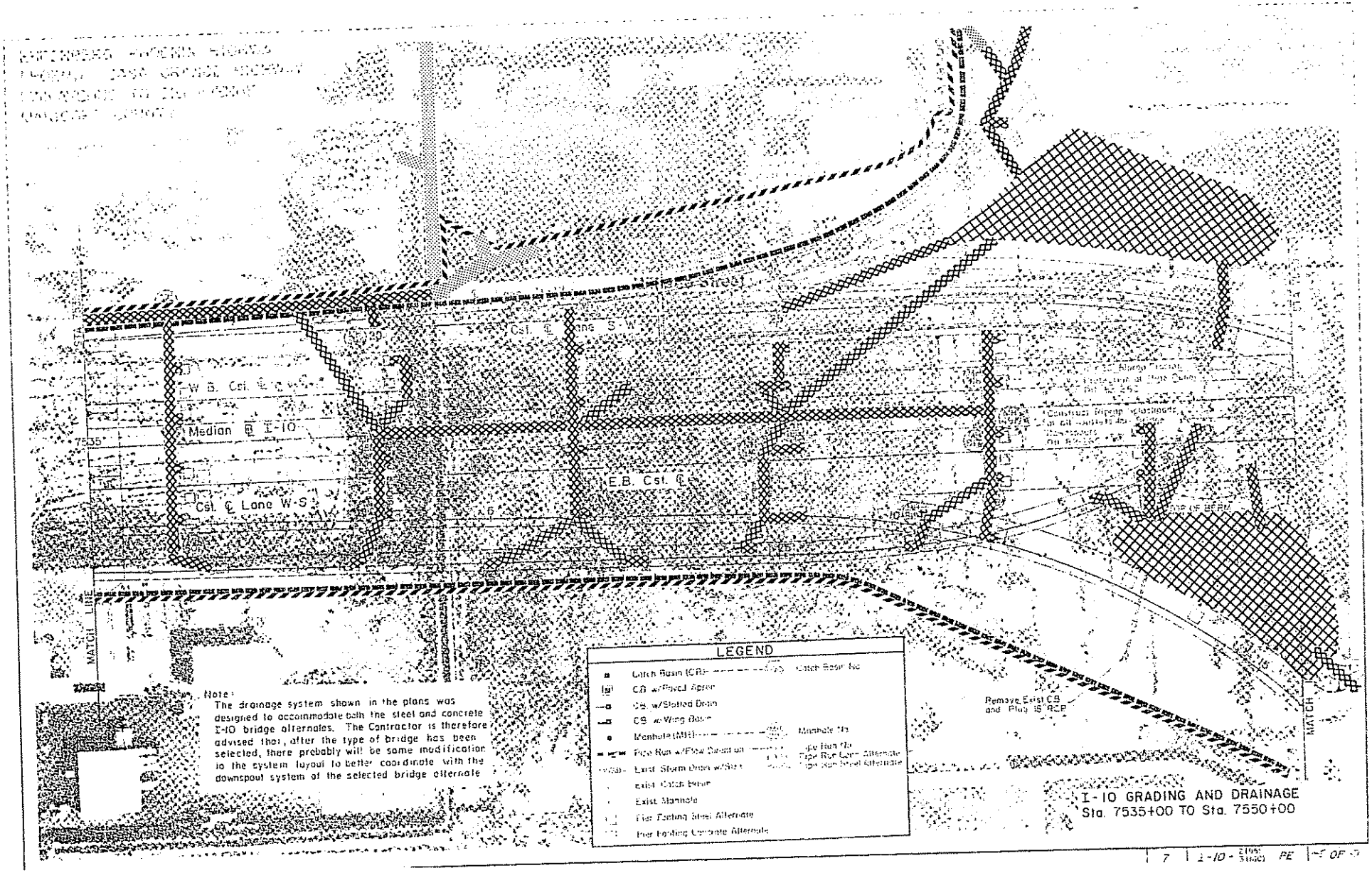
N

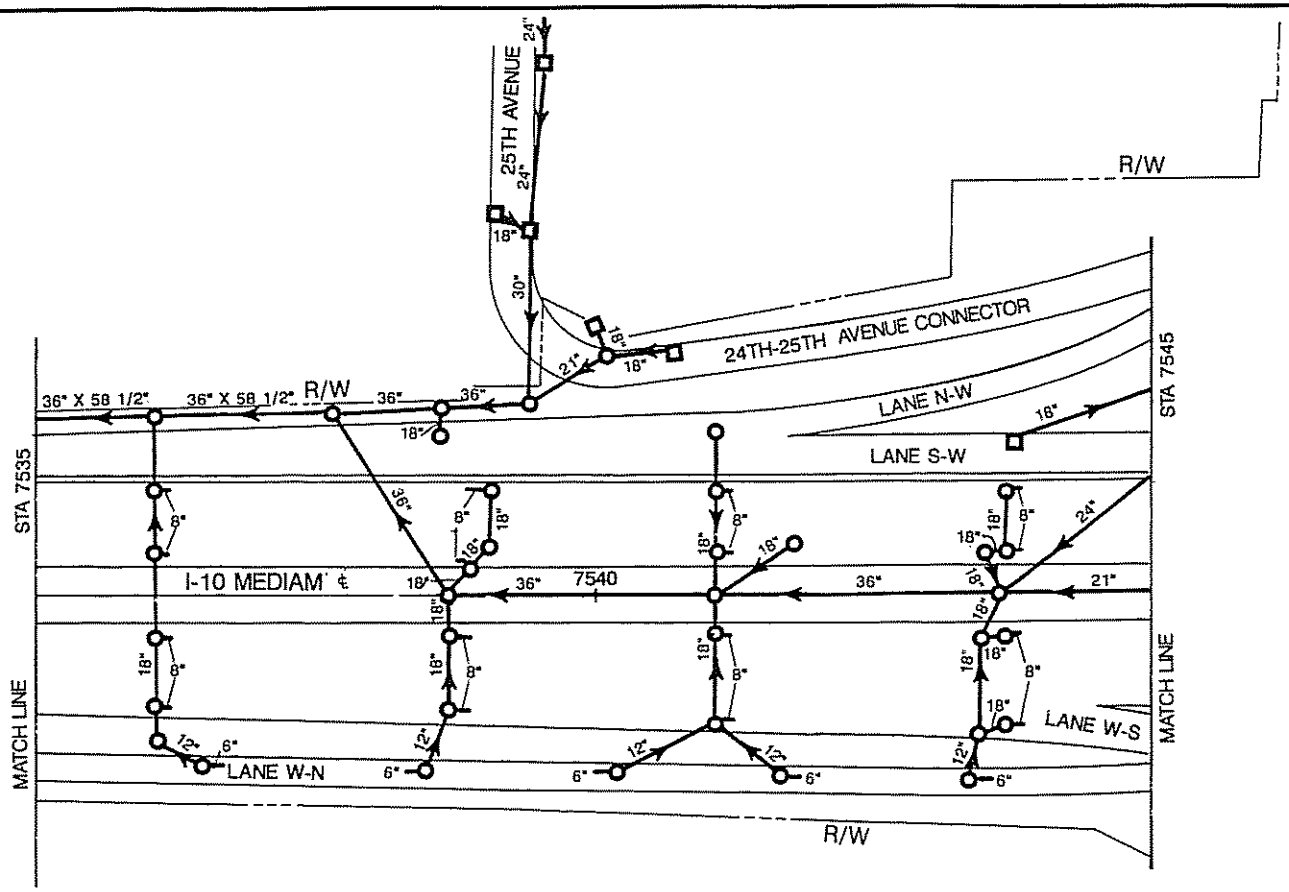
LEGEND

- RIGHT-OF-WAY
- ACCESS CONTROL
- CONCRETE/ ASPHALT LIMITS

REDUCED SIZE DO NOT SCALE

KEY MAP
STA. 181 + 00
TO STA. 253 + 00


W.B. Cst. ℄
Median @ I-10
Csl. ℄ Lane W-S
E.B. Cst. ℄
MATCH LINE
MATCH
Remove Exist CB and Plug 18" RCP
LEGEND
Catch Basin (CB)
CB w/Paved Apron
CB w/Slotted Drain
CB w/Wing Basin
Manhole (MH)
Pipe Run w/Flow Direction
Exist Storm Drain w/Size
Exist Catch Basin
Exist Manhole
Pipe Footing Steel Alternate
Pipe Footing Concrete Alternate
Note:
The drainage system shown in the plans was designed to accommodate both the steel and concrete I-10 bridge alternates. The Contractor is therefore advised that, after the type of bridge has been selected, there probably will be some modification to the system layout to better coordinate with the downspout system of the selected bridge alternate
I-10 GRADING AND DRAINAGE
Sta. 7535+00 TO Sta. 7550+00

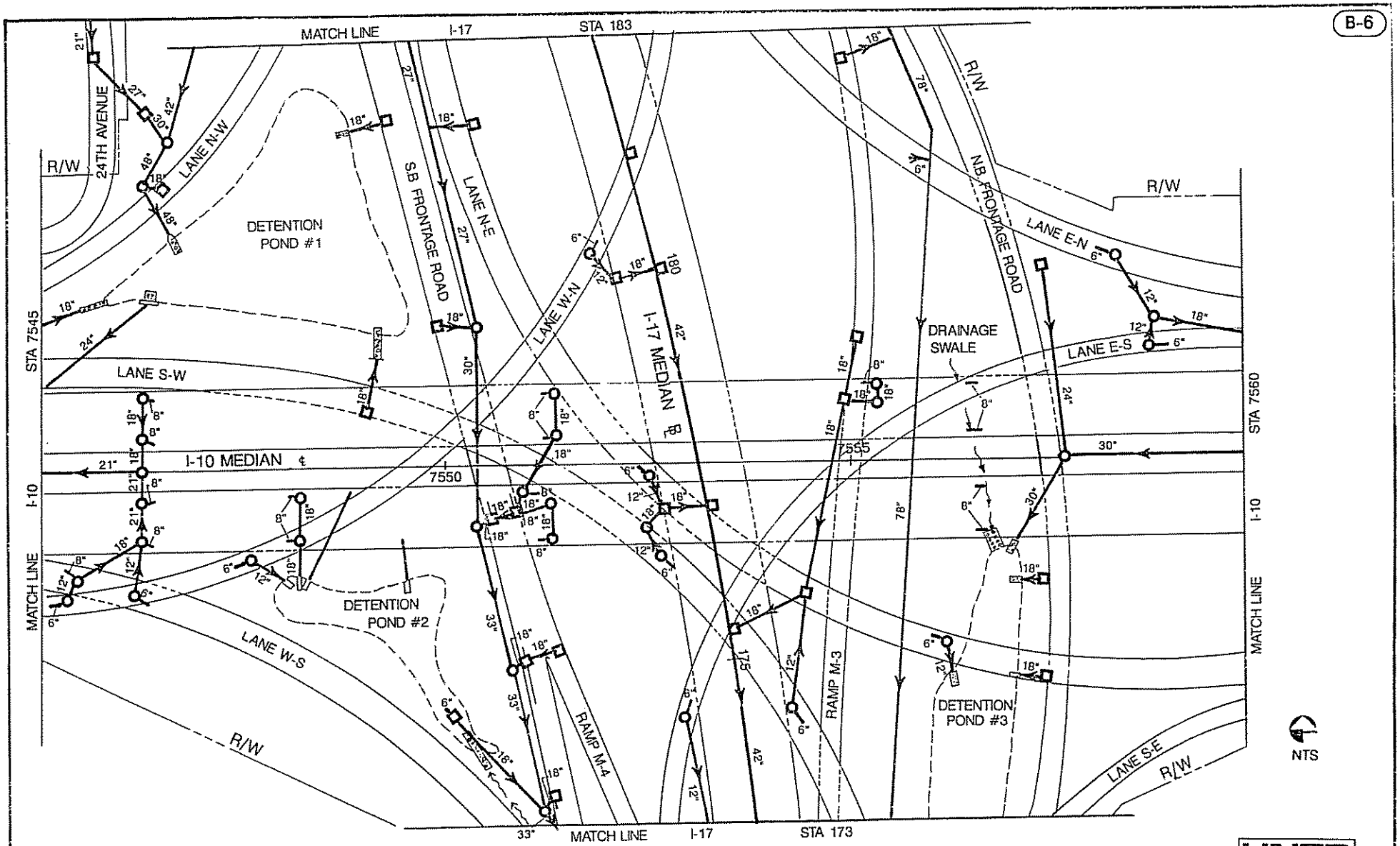


NTS

I-10 STA 7535 TO STA 7545

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB



I-10/I-17 INTERCHANGE: I-10 STA 7545 TO STA 7560, I-17 STA 173 TO STA 183

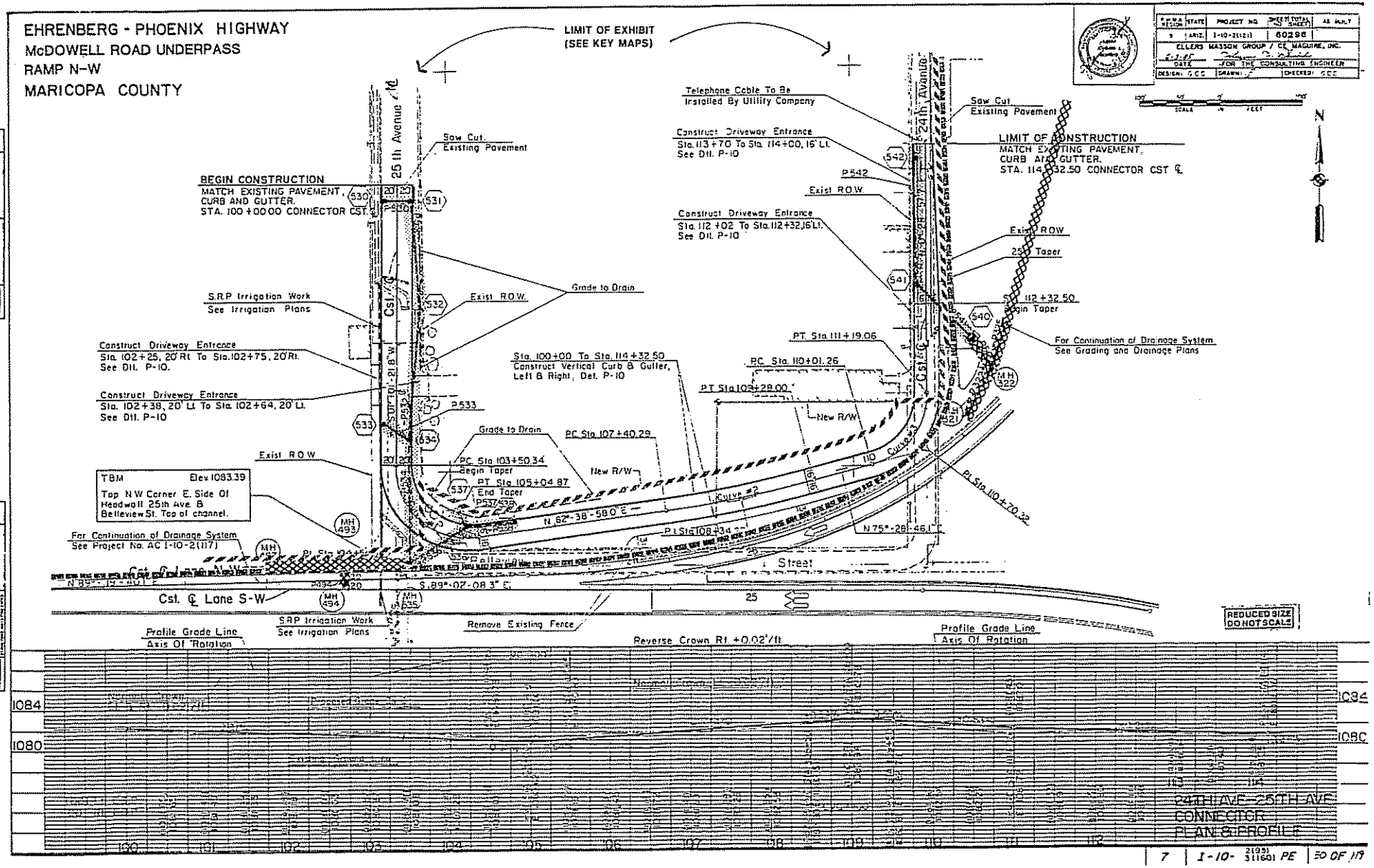
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

REVISED 8-3-93

B-7

EHRENBERG - PHOENIX HIGHWAY
McDOWELL ROAD UNDERPASS
RAMP N-W
MARICOPA COUNTY

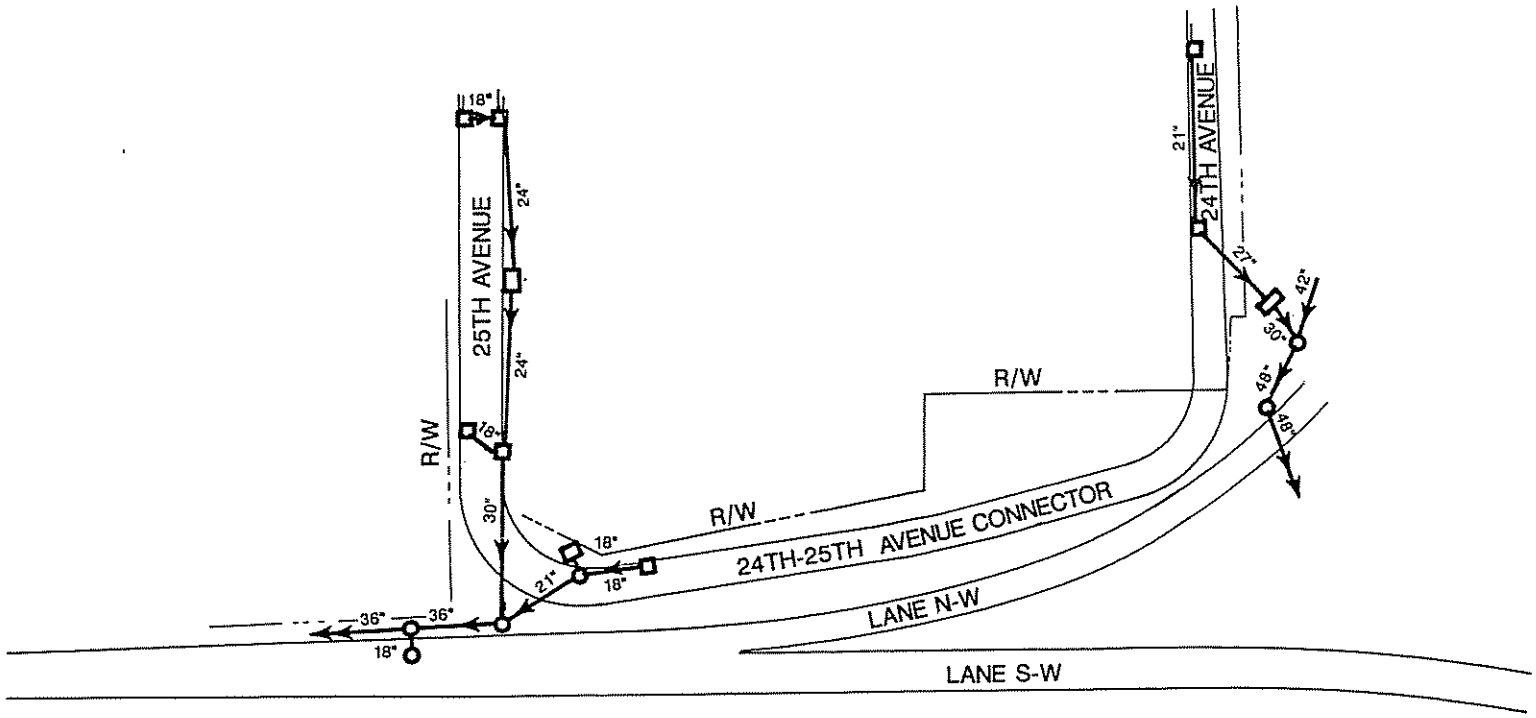


REGION	STATE	PROJECT NO.	SHEET TOTAL SHEET	AS BUILT
9	ARIZ.	I-10-2(123)	60296	

ELLERS MASSON GROUP / C.E. MAGUIRE, INC.
DATE — FOR THE CONSULTING ENGINEER
DESIGN: G.C.E. DRAWN: CHECKED: G.C.E.

SCALE IN FEET

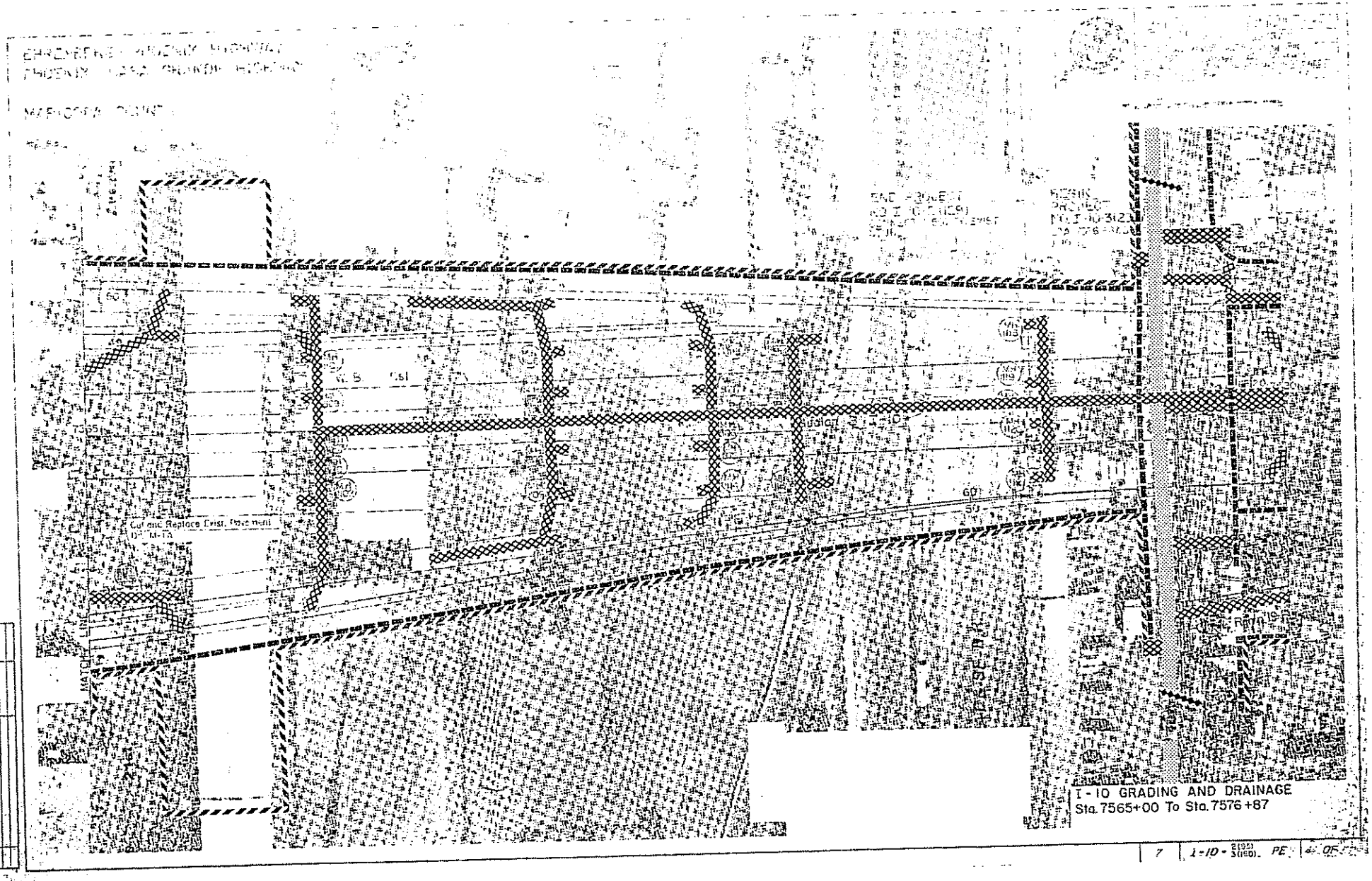
7 | I-10- 2(95) 311601 PE | 50 OF 119

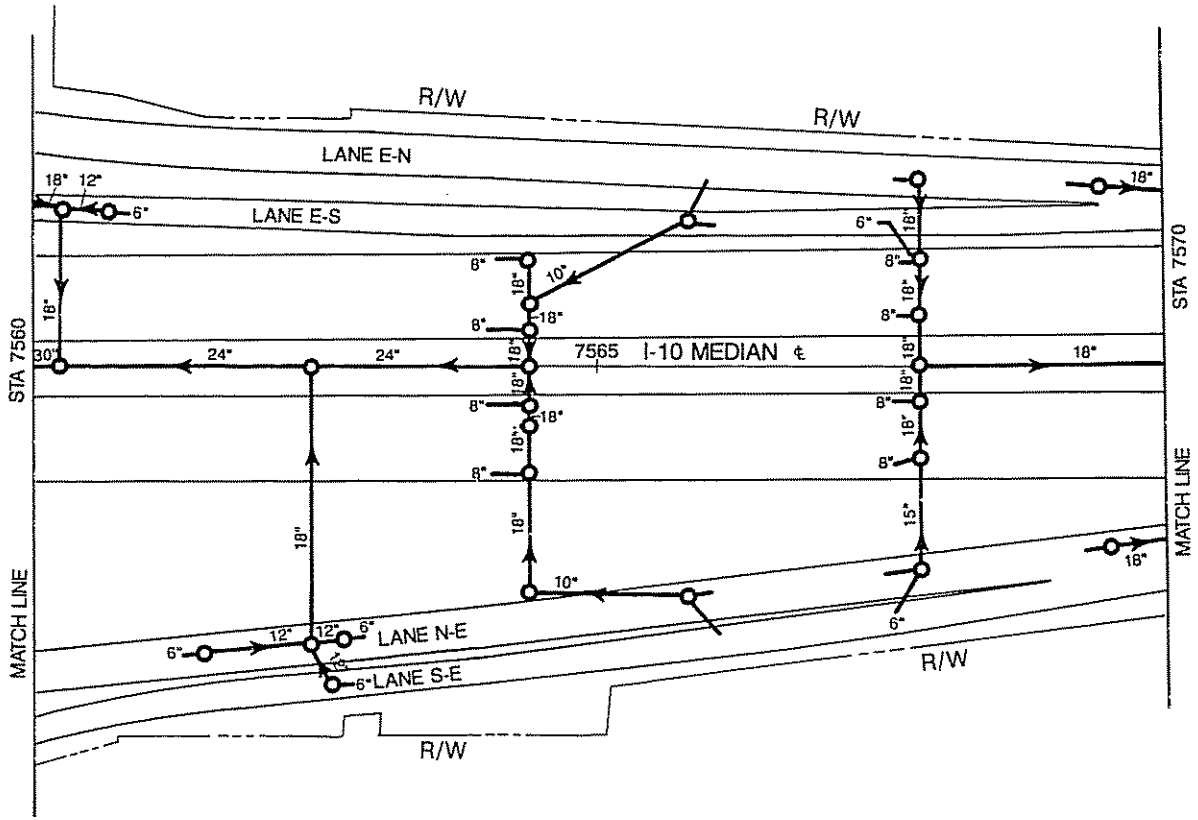


NTS

24TH-25TH AVENUE CONNECTOR
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


I-10 GRADING AND DRAINAGE
Sta. 7565+00 To Sta. 7576+87
Cut and Replace Exist. Pavement
MATCH LINE
END PROJECT
BEGIN PROJECT
60
50
7
I-10 - 2(95) 3(160)
PE

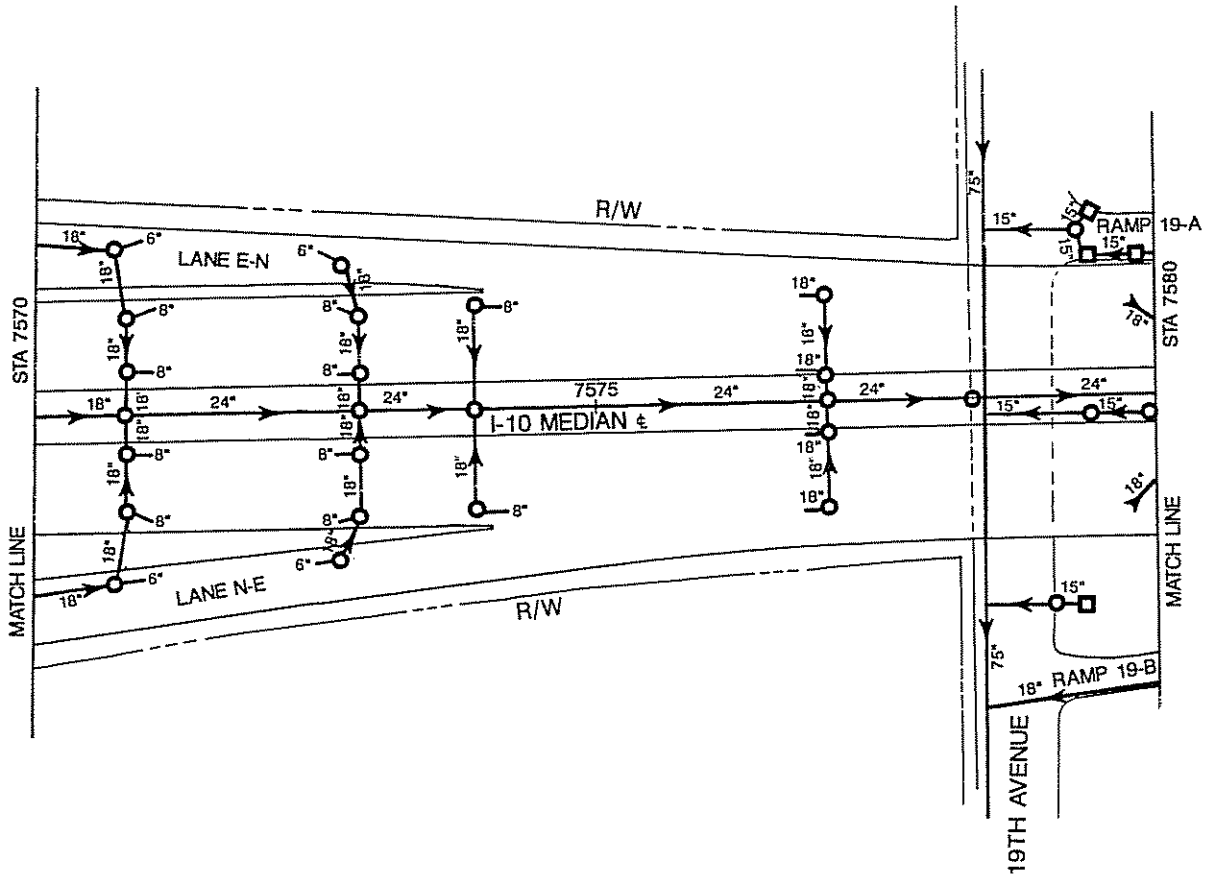


NTS

I-10 STA 7560 TO STA 7570

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB



NTS

I-10 STA 7570 TO STA 7580

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

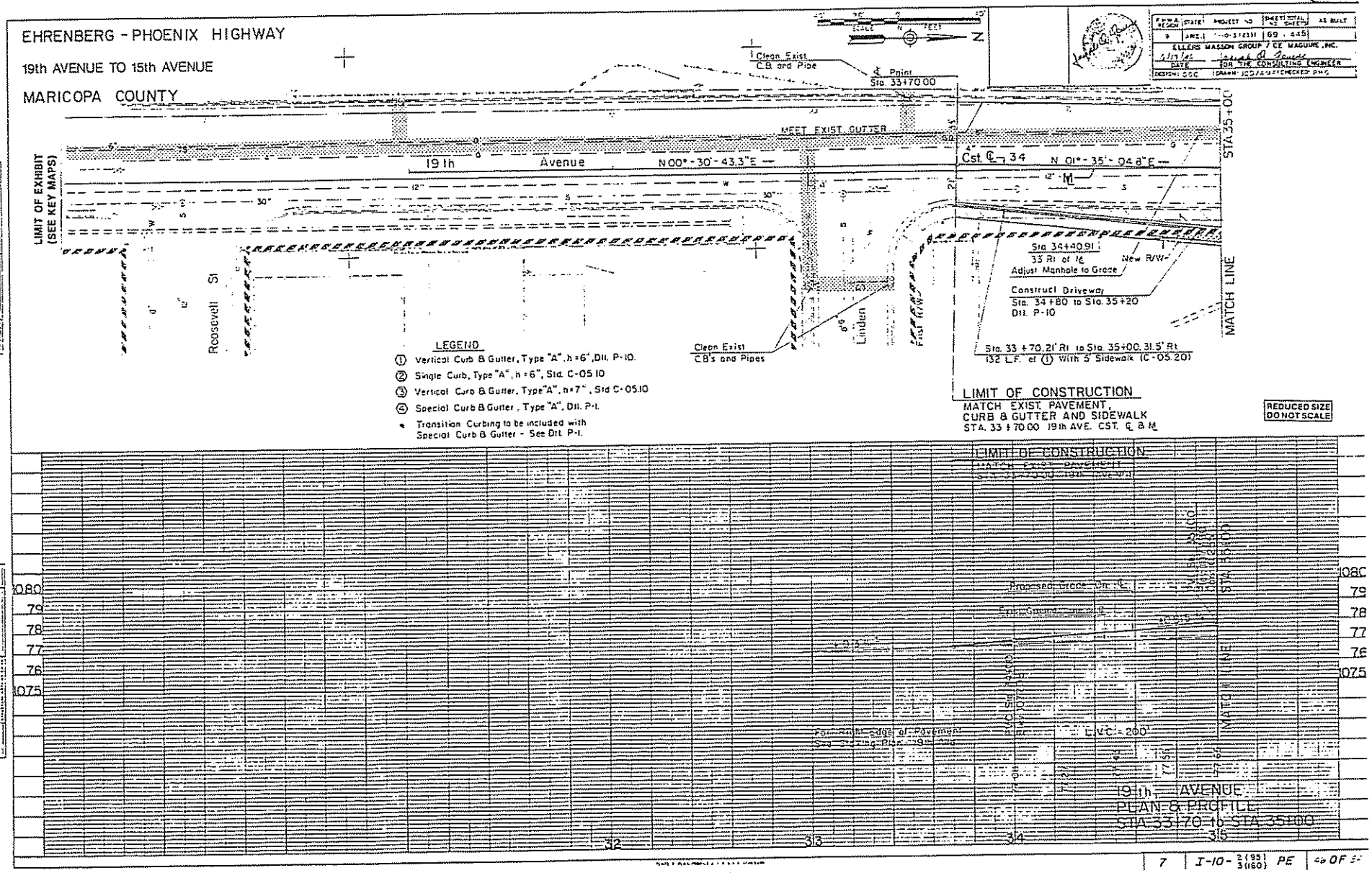
HNTB

B-12

EHRENBERG - PHOENIX HIGHWAY

19th AVENUE TO 15th AVENUE

MARICOPA COUNTY



F.H.W.A. REGION	STATE	PROJECT NO	SHEET TOTAL NO. SHEETS	AS BUILT
9	ARIZ.	I-10-3(231)	69 - 445	

ELLERS MASSON GROUP / CE MAGUIRE, INC.

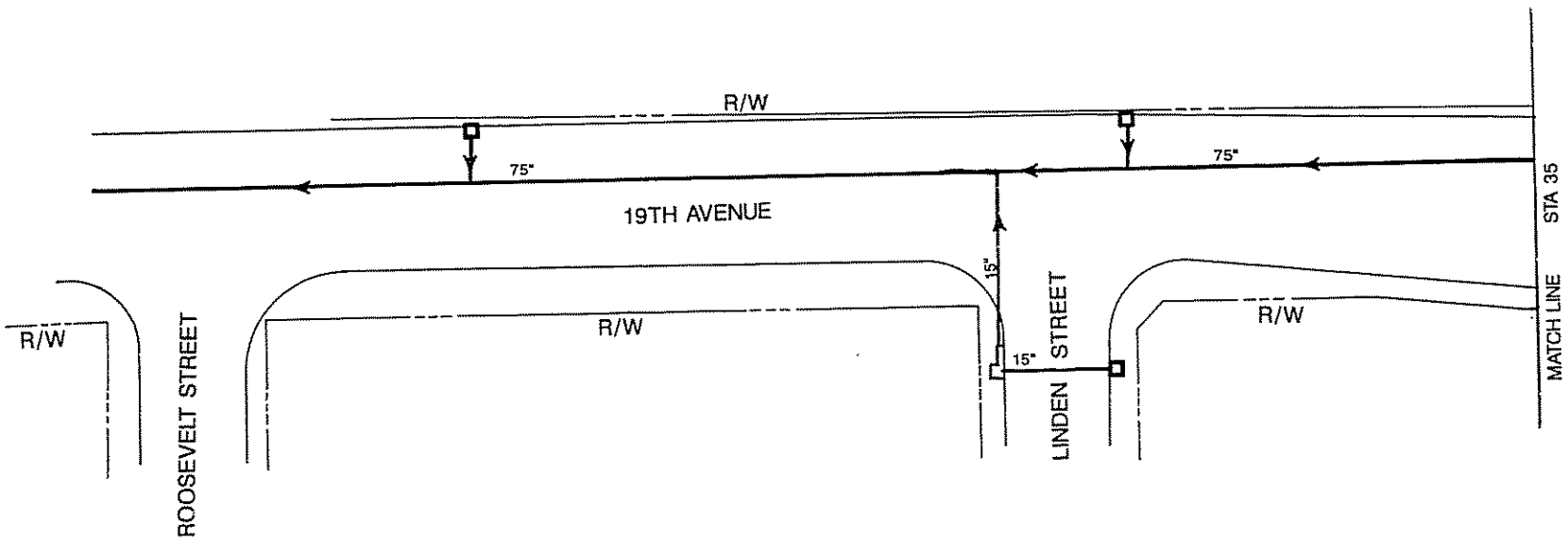
DATE FOR THE CONSULTING ENGINEER

DESIGN: DGC DRAWN: JCD/AJF CHECKED: PHG

PLAN

PROFILE

7 | I-10-2(95) 3(160) PE | 46 OF 5[illegible]



NTS

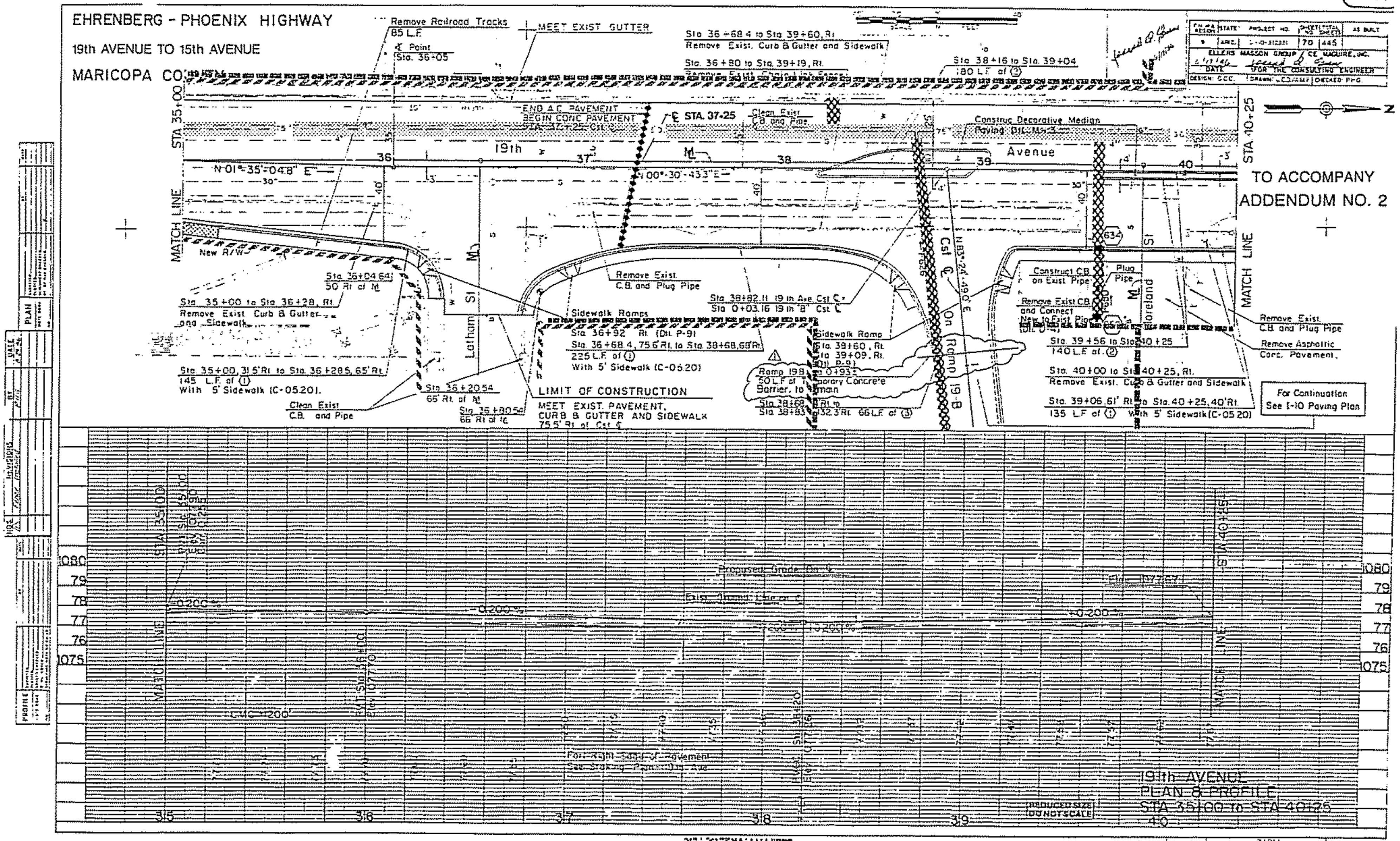
19TH AVE STA 30 TO STA 35

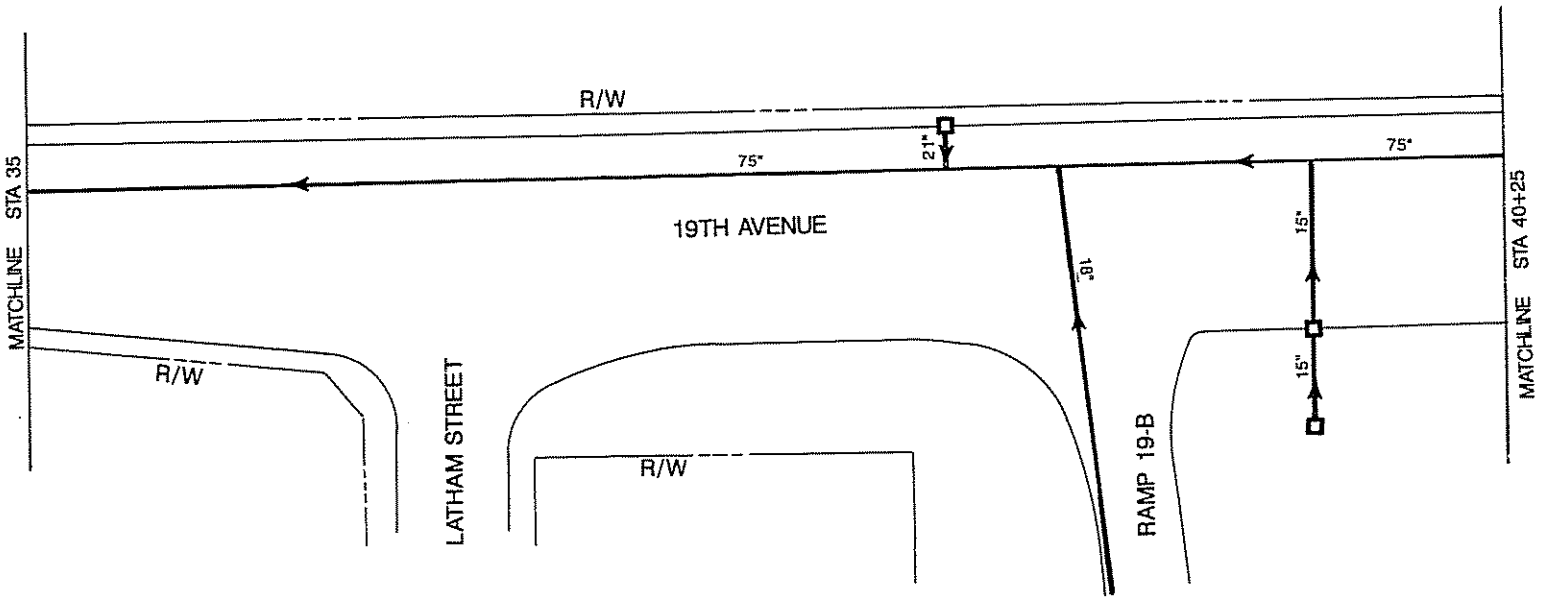
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

REVISED 8-3-93

B-14





NTS

19TH AVE STA 35 TO STA 40+25
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

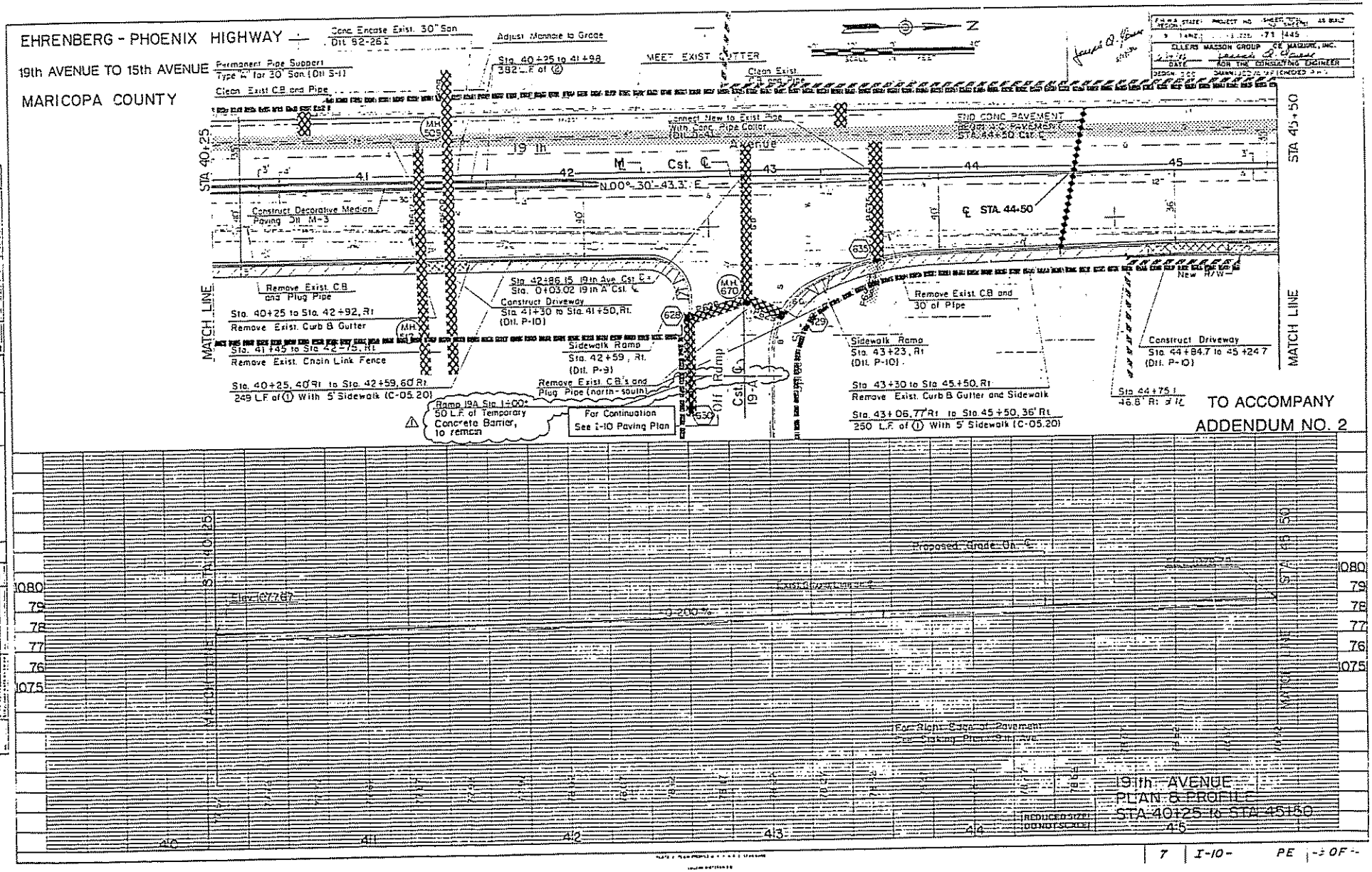
REVISED 8-3-93

B-16

EHRENBERG - PHOENIX HIGHWAY

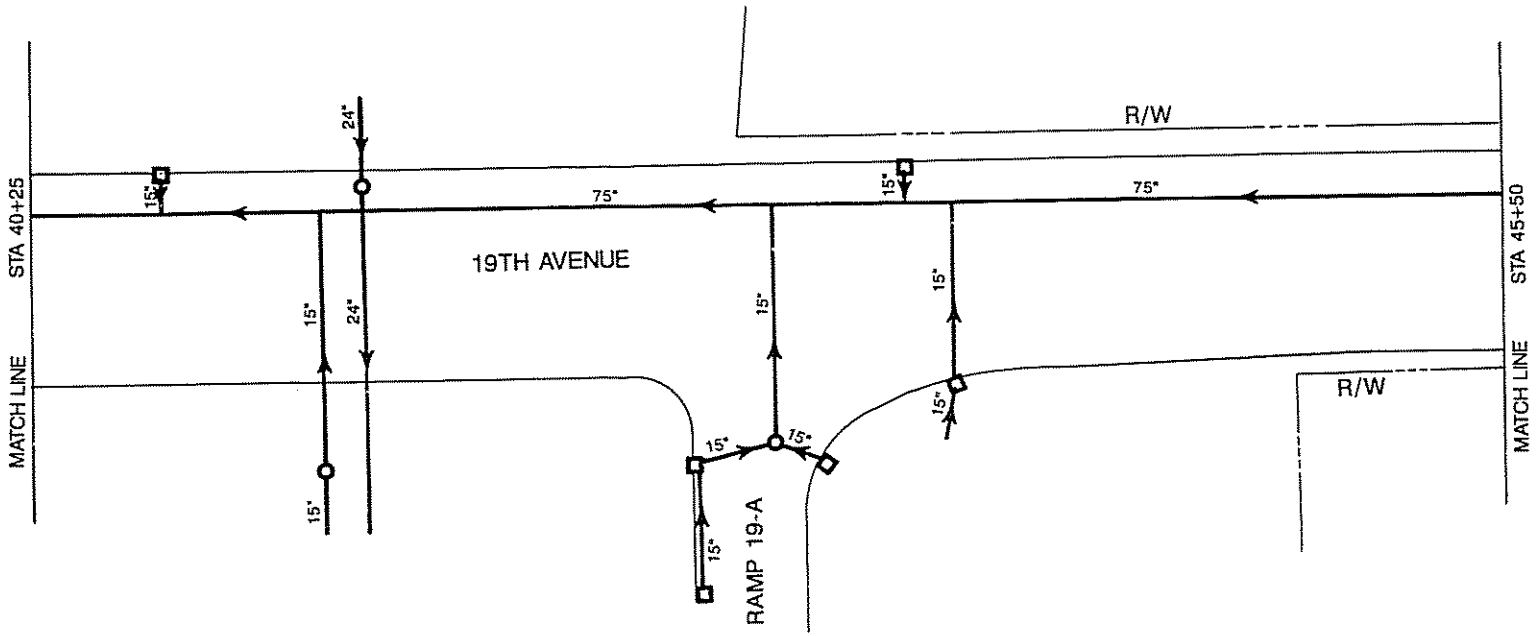
19th AVENUE TO 15th AVENUE

MARICOPA COUNTY



TO ACCOMPANY
ADDENDUM NO. 2

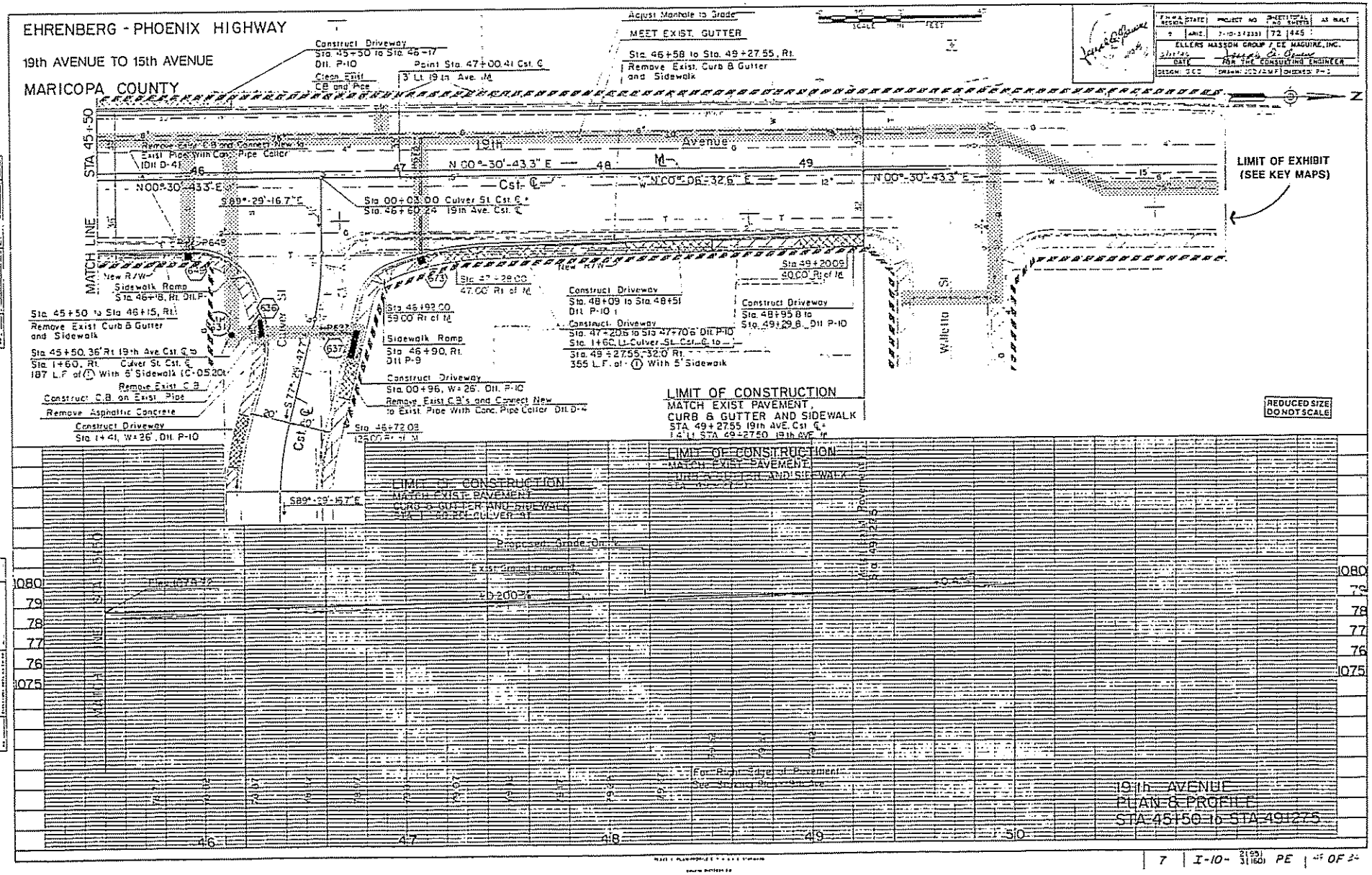
7	I-10-	PE	-- OF --

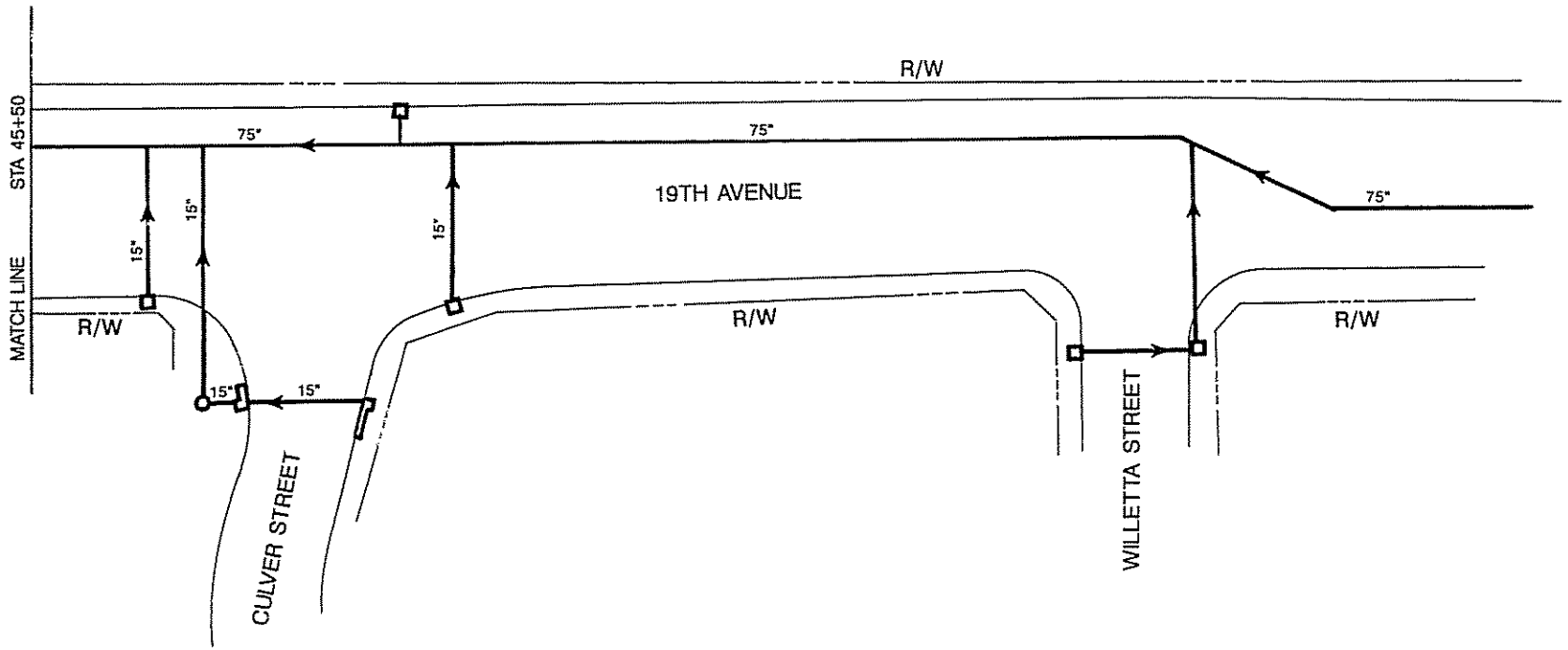


NTS

19TH AVE STA 40+25 TO STA 45+50
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


EHRENBERG - PHOENIX HIGHWAY
19th AVENUE TO 15th AVENUE
MARICOPA COUNTY
Construct Driveway
Sta. 45+50 to Sta. 46+17
Dtl. P-10
Clean Exist
CB and Pipe
Point Sta. 47+00.41 Cst. ℄
3' Lt. 19th Ave. ℄
Adjust Manhole to Grade
MEET EXIST. GUTTER
Sta. 46+58 to Sta. 49+27.55, Rt.
Remove Exist. Curb & Gutter
and Sidewalk
ELLERS MASSON GROUP / DE MAGUIRE, INC.
FOR THE CONSULTING ENGINEER
STA 45+50
MATCH LINE
19th Avenue
N 00°-30'-43.3" E
N 00°-06'-32.6" E
N 00°-30'-43.3" E
S 89°-29'-16.7" E
Sta. 00+03.00 Culver St. Cst. ℄
Sta. 46+60.24 19th Ave. Cst. ℄
LIMIT OF EXHIBIT
(SEE KEY MAPS)
Sidewalk Ramp
Sta. 46+18, Rt. Dtl. P-
Sta. 45+50 to Sta. 46+15, Rt.
Remove Exist Curb & Gutter
and Sidewalk
Sta. 45+50, 36' Rt. 19th Ave. Cst. ℄ to
Sta. 1+60, Rt. Culver St. Cst. ℄
187 L.F. of ① With 5' Sidewalk (C-05.20)
Remove Exist. C.B.
Construct C.B. on Exist. Pipe
Remove Asphaltic Concrete
Construct Driveway
Sta. 1+41, W=26', Dtl. P-10
Sta. 47+28.00
47.00' Rt. of ℄
Sta. 46+92.00
59.00' Rt. of ℄
Sidewalk Ramp
Sta. 46+90, Rt.
Dtl. P-9
Construct Driveway
Sta. 00+96, W=26', Dtl. P-10
Remove Exist. C.B.'s and Connect New
to Exist. Pipe With Conc. Pipe Collar Dtl. D-4
Sta. 46+72.08
125.00' Rt. of ℄
Construct Driveway
Sta. 48+09 to Sta. 48+51
Dtl. P-10
Construct Driveway
Sta. 47+20.6 to Sta. 47+70.6 Dtl. P-10
Sta. 1+60, Lt. Culver St. Cst. ℄ to
Sta. 49+27.55, 32.0' Rt.
355 L.F. of ① With 5' Sidewalk
Sta. 49+20.09
40.00' Rt. of ℄
Construct Driveway
Sta. 48+95.8 to
Sta. 49+29.8, Dtl. P-10
Willetta St.
LIMIT OF CONSTRUCTION
MATCH EXIST. PAVEMENT,
CURB & GUTTER AND SIDEWALK
STA. 49+27.55 19th AVE. Cst. ℄
LIMIT OF CONSTRUCTION
MATCH EXIST. PAVEMENT
CURB & GUTTER AND SIDEWALK
LIMIT OF CONSTRUCTION
MATCH EXIST. PAVEMENT
CURB & GUTTER AND SIDEWALK
Proposed Grade On ℄
Exist. Ground Line on ℄
+0.200%
+0.4%
1080
79
78
77
76
1075
For Right Edge of Pavement
See Striking Plan - 19th Ave.
19th AVENUE
PLAN & PROFILE
STA 45+50 to STA 49+27.5
REDUCED SIZE
DO NOT SCALE
46
47
48
49
50



NTS

19TH AVE STA 45+50 TO STA 51
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

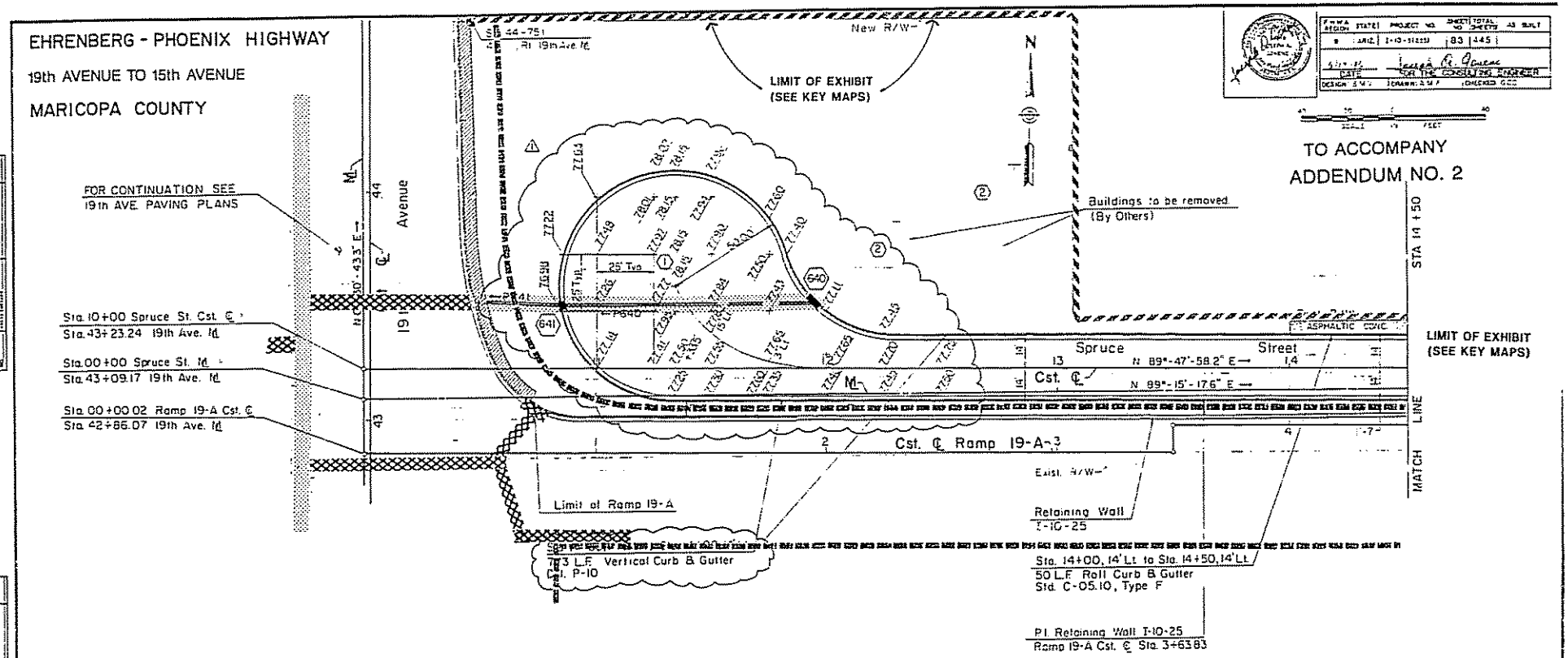
REVISED 8-3-93

B-20

EHRENBERG - PHOENIX HIGHWAY

19th AVENUE TO 15th AVENUE

MARICOPA COUNTY



TO ACCOMPANY ADDENDUM NO. 2

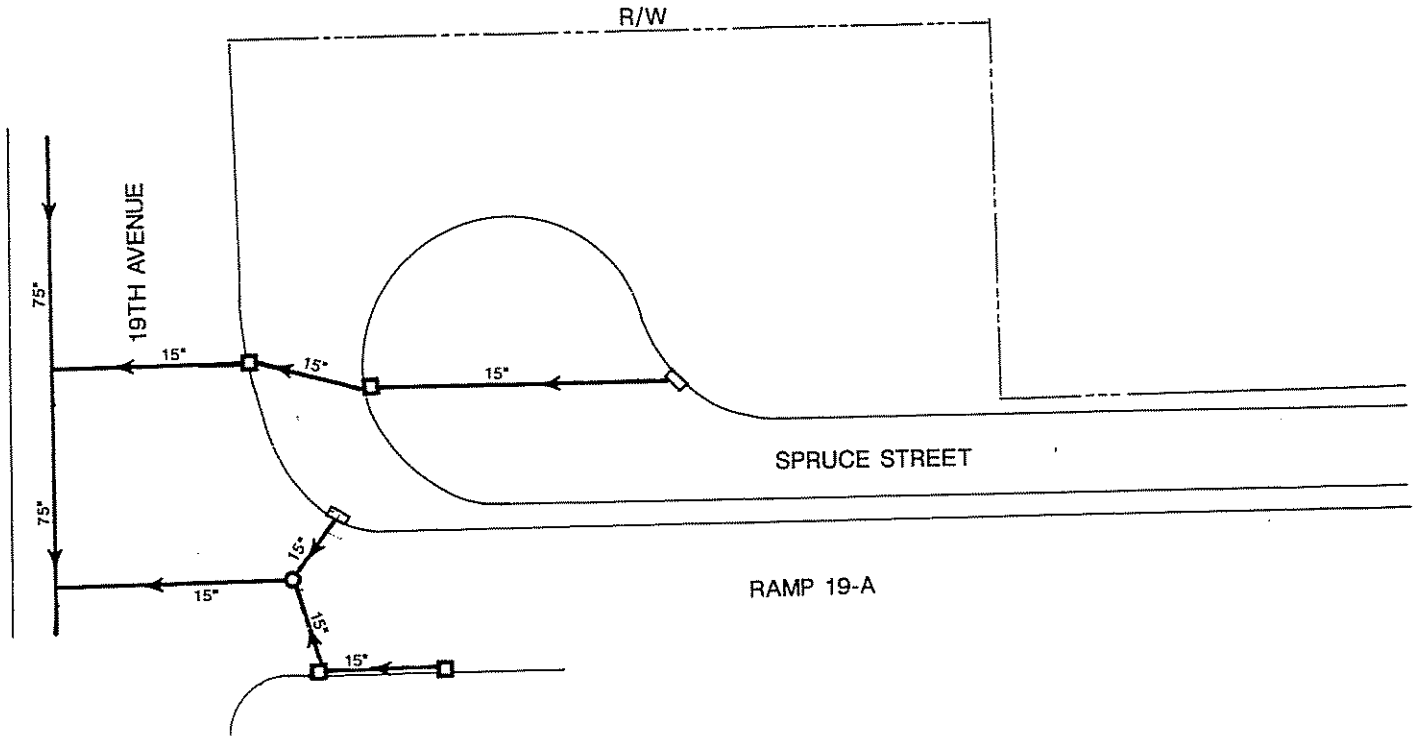
LOCATION OF RADIUS POINTS		
STATION	OFFSET	RADIUS
① 11 + 33.50	36' Lt.	50'
② 12 + 29.50	64' Lt.	50'

CURVE DATA						
CURVE #	Δ	D	R	L	C	T
1	253°-44'-21.0"	114°-35'-29.6"	50.00'	221.43'	80.00'	–
2	73°-44'-22.0"	114°-35'-29.6"	50.00'	64.35'	60.00'	37.50'

NOTE: BASE ELEV. = 1,000.00.
ALL RADII ARE TO FACE OF CURB.

REDUCED SIZE DO NOT SCALE

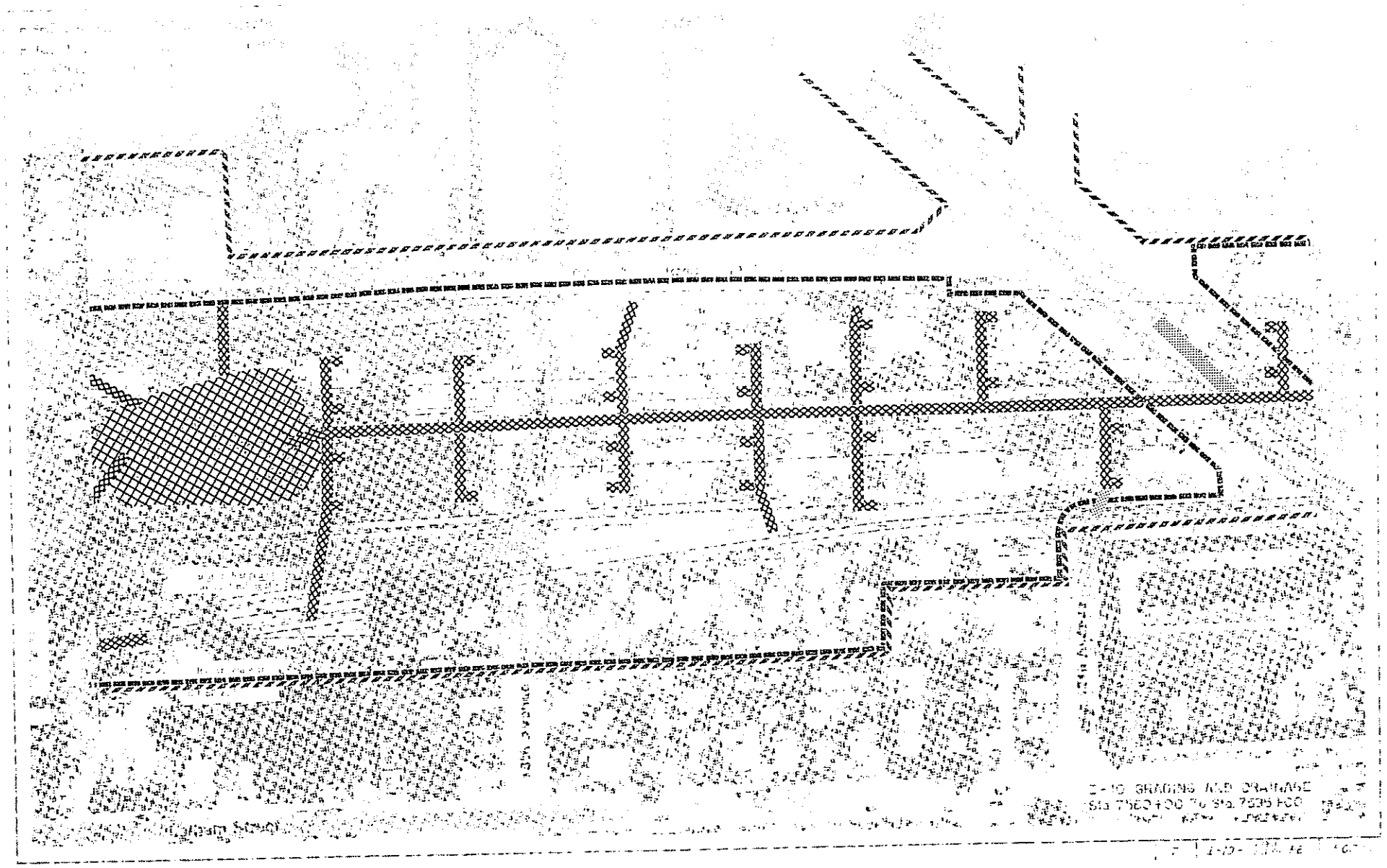
PAVING PLAN
SPRUCE STREET
STA. 10 + 00 to STA. 14+50

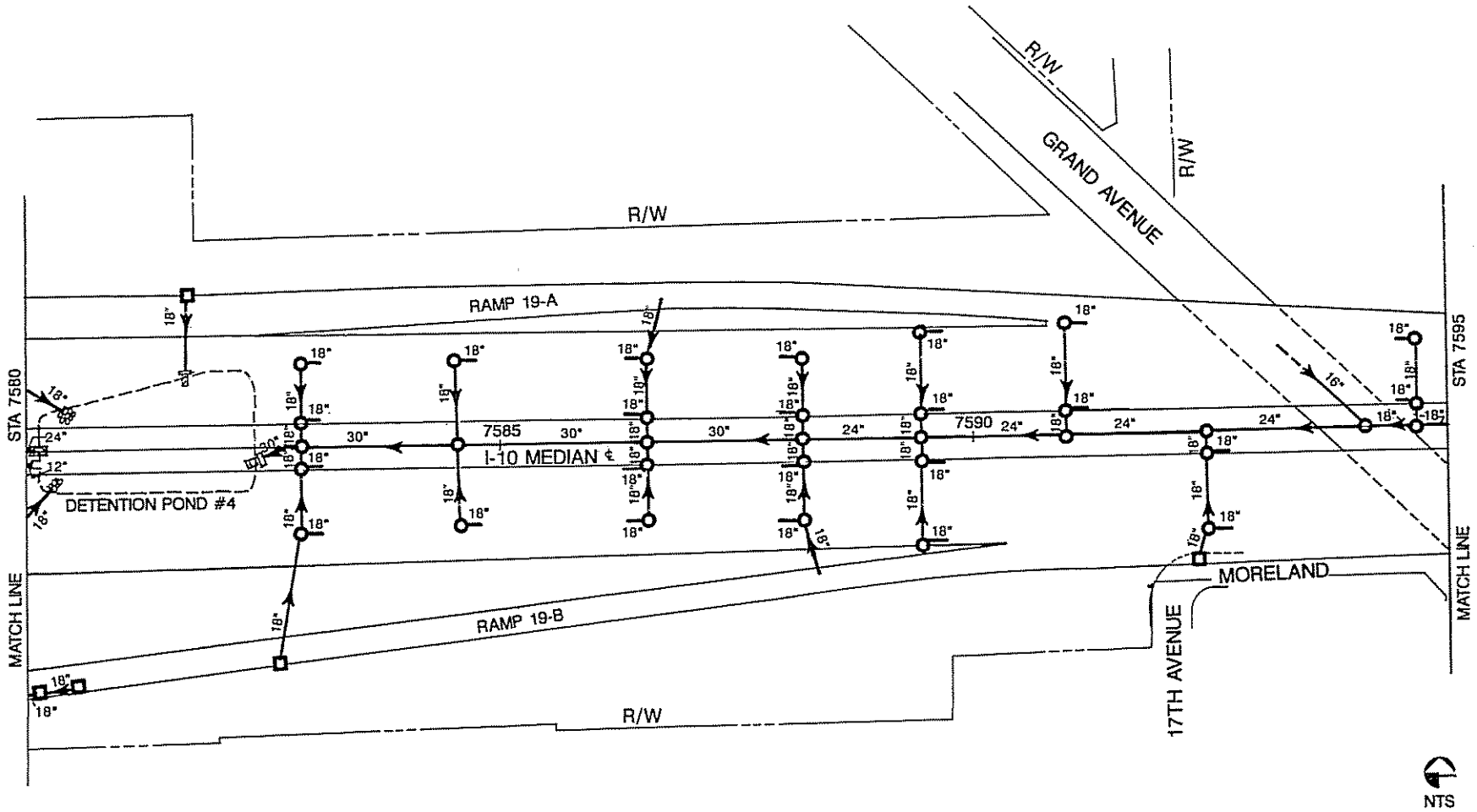


NTS

SPRUCE STREET
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB





I-10 STA 7580 TO STA 7595

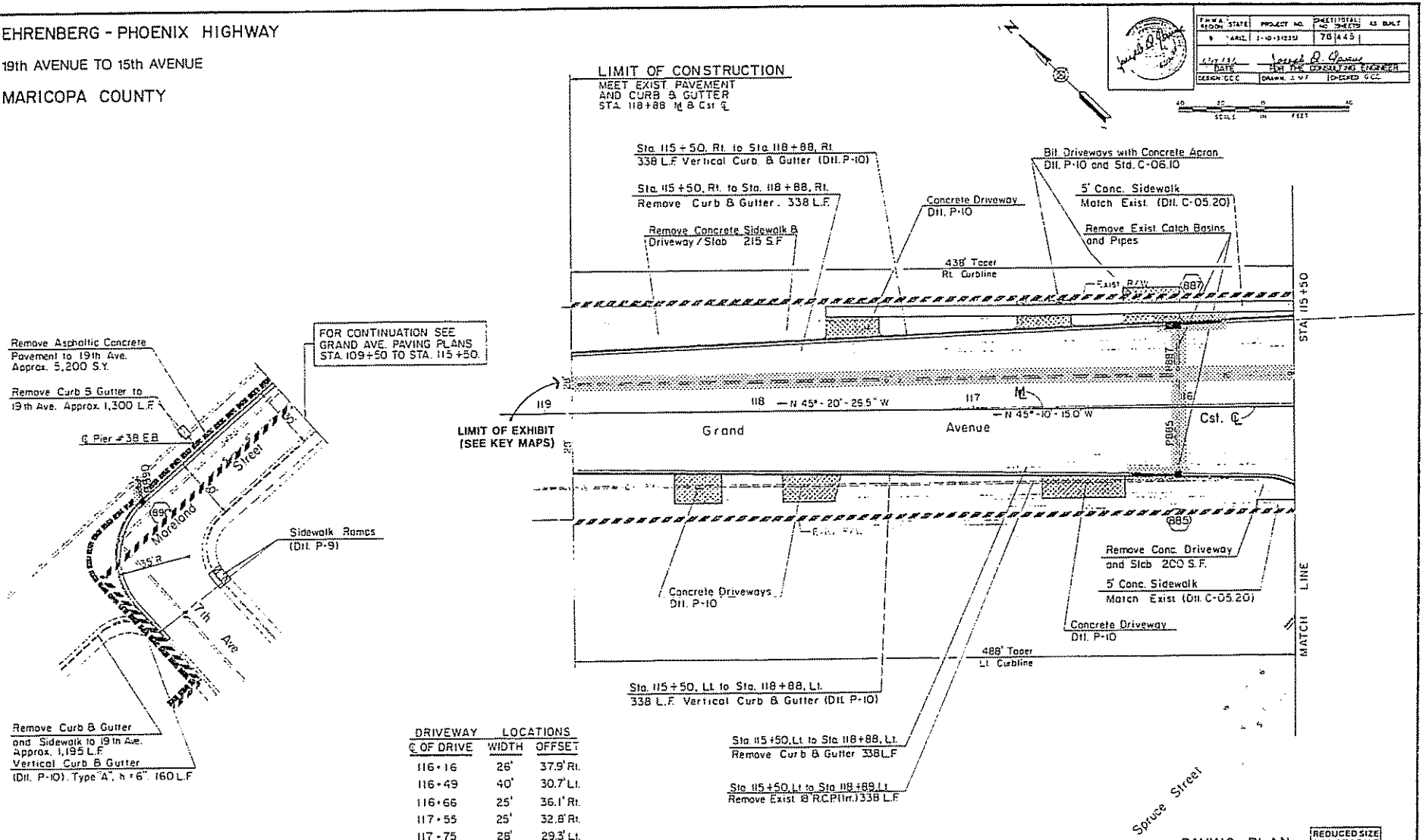
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

EHRENBERG - PHOENIX HIGHWAY

19th AVENUE TO 15th AVENUE

MARICOPA COUNTY

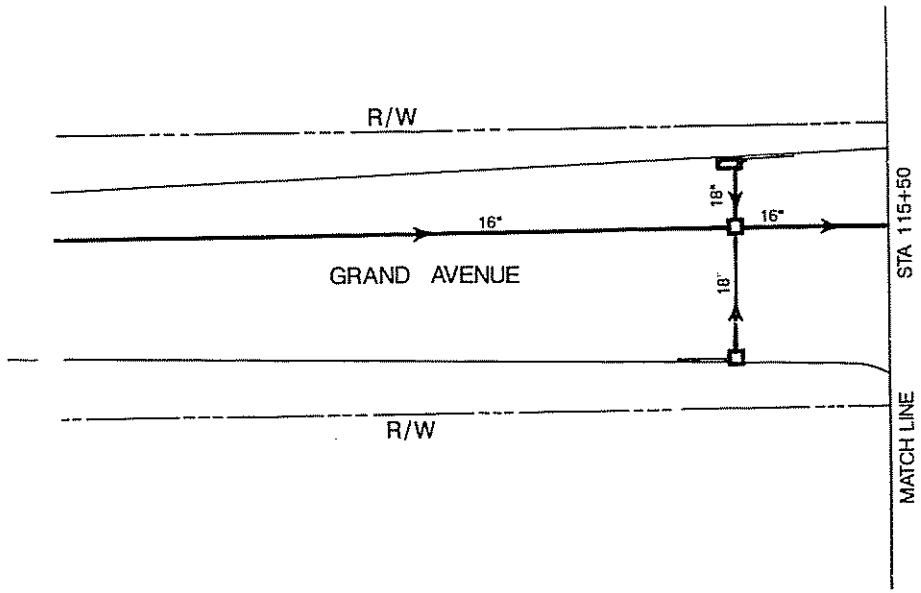


DRIVEWAY LOCATIONS		
℄ OF DRIVE	WIDTH	OFFSET
116+16	26'	37.9' Rt.
116+49	40'	30.7' Lt.
116+66	25'	36.1' Rt.
117+55	25'	32.8' Rt.
117+75	26'	29.3' Lt.
118+29	22'	28.7' Lt.

PAVING PLAN

GRAND AVENUE

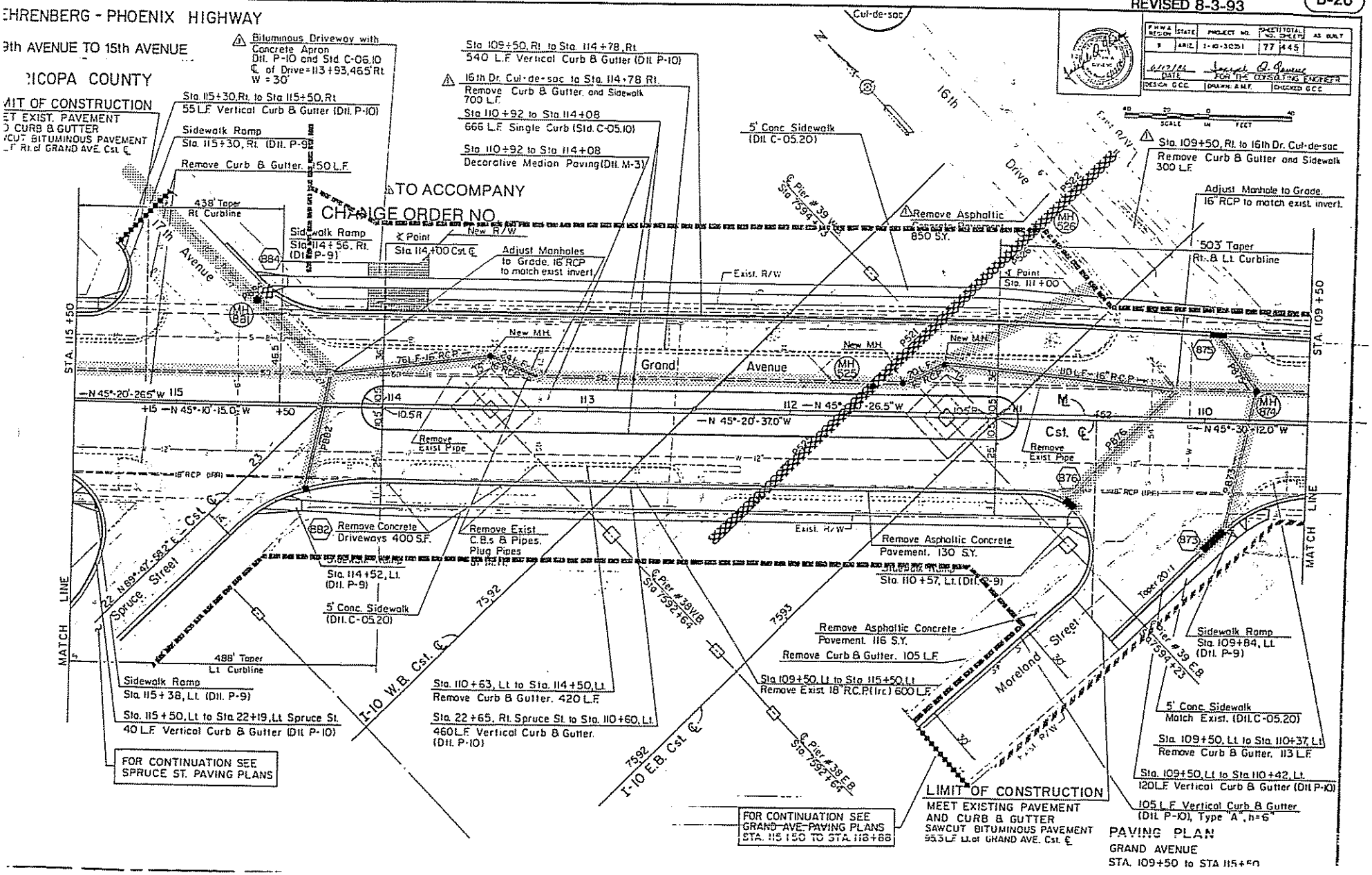
STA. 115+50 to STA 118+88



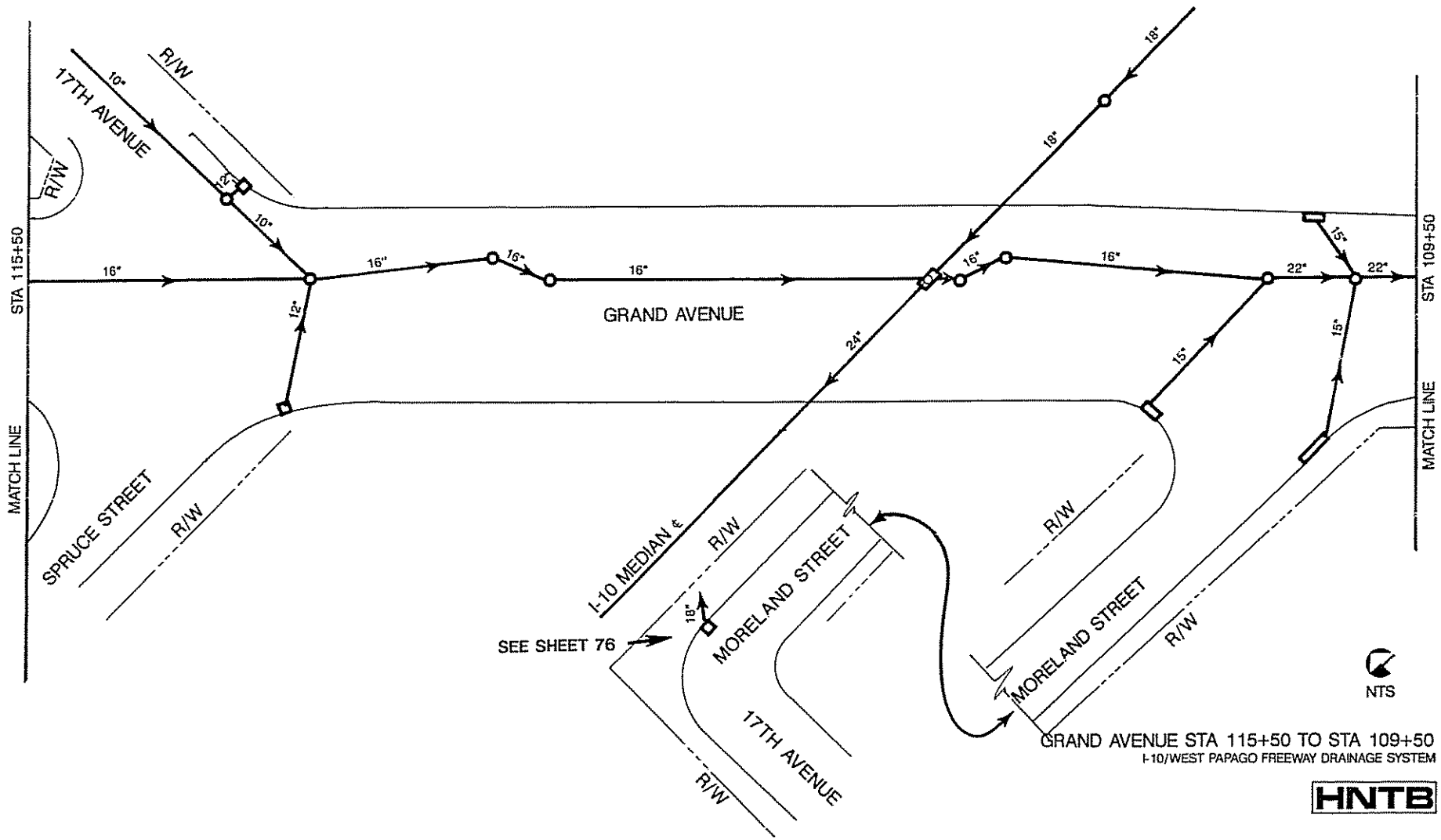
NTS

GRAND AVENUE SAT 119 TO STA 115+50
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB



REVISED 8-3-93
B-26
EHRENBERG - PHOENIX HIGHWAY
9th AVENUE TO 15th AVENUE
RICOPA COUNTY
MIT OF CONSTRUCTION
ET EXIST. PAVEMENT
D CURB & GUTTER
WCUT BITUMINOUS PAVEMENT
LF Rt. of GRAND AVE. Cst. ℄
Bituminous Driveway with Concrete Apron Dtl. P-10 and Std. C-06.10 ℄ of Drive=113+93, 46.5' Rt W = 30'
Sta. 115+30, Rt. to Sta. 115+50, Rt. 55 L.F. Vertical Curb & Gutter (Dtl. P-10)
Sidewalk Ramp Sta. 115+30, Rt. (Dtl. P-9)
Remove Curb & Gutter. 150 L.F.
Sta. 109+50, Rt. to Sta. 114+78, Rt. 540 L.F. Vertical Curb & Gutter (Dtl. P-10)
16th Dr. Cul-de-sac to Sta. 114+78 Rt. Remove Curb & Gutter, and Sidewalk 700 L.F.
Sta. 110+92 to Sta. 114+08 666 L.F. Single Curb (Std. C-05.10)
Sta. 110+92 to Sta. 114+08 Decorative Median Paving (Dtl. M-3)
TO ACCOMPANY
CHANGE ORDER NO.
438' Taper Rt. Curbline
Sidewalk Ramp Sta. 114+56, Rt. (Dtl. P-9)
℄ Point Sta. 114+00 Cst. ℄
New R/W
Adjust Manholes to Grade. 16" RCP to match exist. invert.
5' Conc. Sidewalk (Dtl. C-05.20)
Remove Asphaltic Concrete Pavement 850 S.Y.
Sta. 109+50, Rt. to 16th Dr. Cul-de-sac Remove Curb & Gutter and Sidewalk 300 L.F.
Adjust Manhole to Grade. 16" RCP to match exist. invert.
503' Taper Rt. & Lt. Curbline
℄ Point Sta. 111+00
Cul-de-sac
16th Drive
17th Avenue
Grand Avenue
Exist. R/W
New MH
76 L.F.-16" RCP
110 L.F.-16" RCP
Remove Exist. Pipe
Remove Concrete Driveways 400 S.F.
Remove Exist. C.B.s & Pipes. Plug Pipes
Sta. 114+52, Lt. (Dtl. P-9)
5' Conc. Sidewalk (Dtl. C-05.20)
488' Taper Lt. Curbline
Sidewalk Ramp Sta. 115+38, Lt. (Dtl. P-9)
Sta. 115+50, Lt. to Sta. 22+19, Lt. Spruce St. 40 L.F. Vertical Curb & Gutter (Dtl. P-10)
FOR CONTINUATION SEE SPRUCE ST. PAVING PLANS
Sta. 110+63, Lt. to Sta. 114+50, Lt. Remove Curb & Gutter. 420 L.F.
Sta. 22+65, Rt. Spruce St. to Sta. 110+60, Lt. 460 L.F. Vertical Curb & Gutter. (Dtl. P-10)
I-10 W.B. Cst. ℄
I-10 E.B. Cst. ℄
Spruce Street
Remove Asphaltic Concrete Pavement. 130 S.Y.
Sta. 110+57, Lt. (Dtl. P-9)
Remove Asphaltic Concrete Pavement. 116 S.Y.
Remove Curb & Gutter. 105 L.F.
Sta. 109+50, Lt. to Sta. 115+50, Lt. Remove Exist. 18" R.C.P. (Irr.) 600 L.F.
Moreland Street
Sidewalk Ramp Sta. 109+84, Lt. (Dtl. P-9)
5' Conc. Sidewalk Match Exist. (Dtl. C-05.20)
Sta. 109+50, Lt. to Sta. 110+37, Lt. Remove Curb & Gutter. 113 L.F.
Sta. 109+50, Lt. to Sta. 110+42, Lt. 120 L.F. Vertical Curb & Gutter (Dtl. P-10)
105 L.F. Vertical Curb & Gutter (Dtl. P-10), Type "A", h=6"
FOR CONTINUATION SEE GRAND AVE. PAVING PLANS STA. 115+50 TO STA. 118+88
LIMIT OF CONSTRUCTION
MEET EXISTING PAVEMENT AND CURB & GUTTER
SAWCUT BITUMINOUS PAVEMENT 95.3 L.F. Lt. of GRAND AVE. Cst. ℄
PAVING PLAN
GRAND AVENUE
STA. 109+50 to STA. 115+50
STA. 115+50
STA. 109+50
MATCH LINE



GRAND AVENUE STA 115+50 TO STA 109+50

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

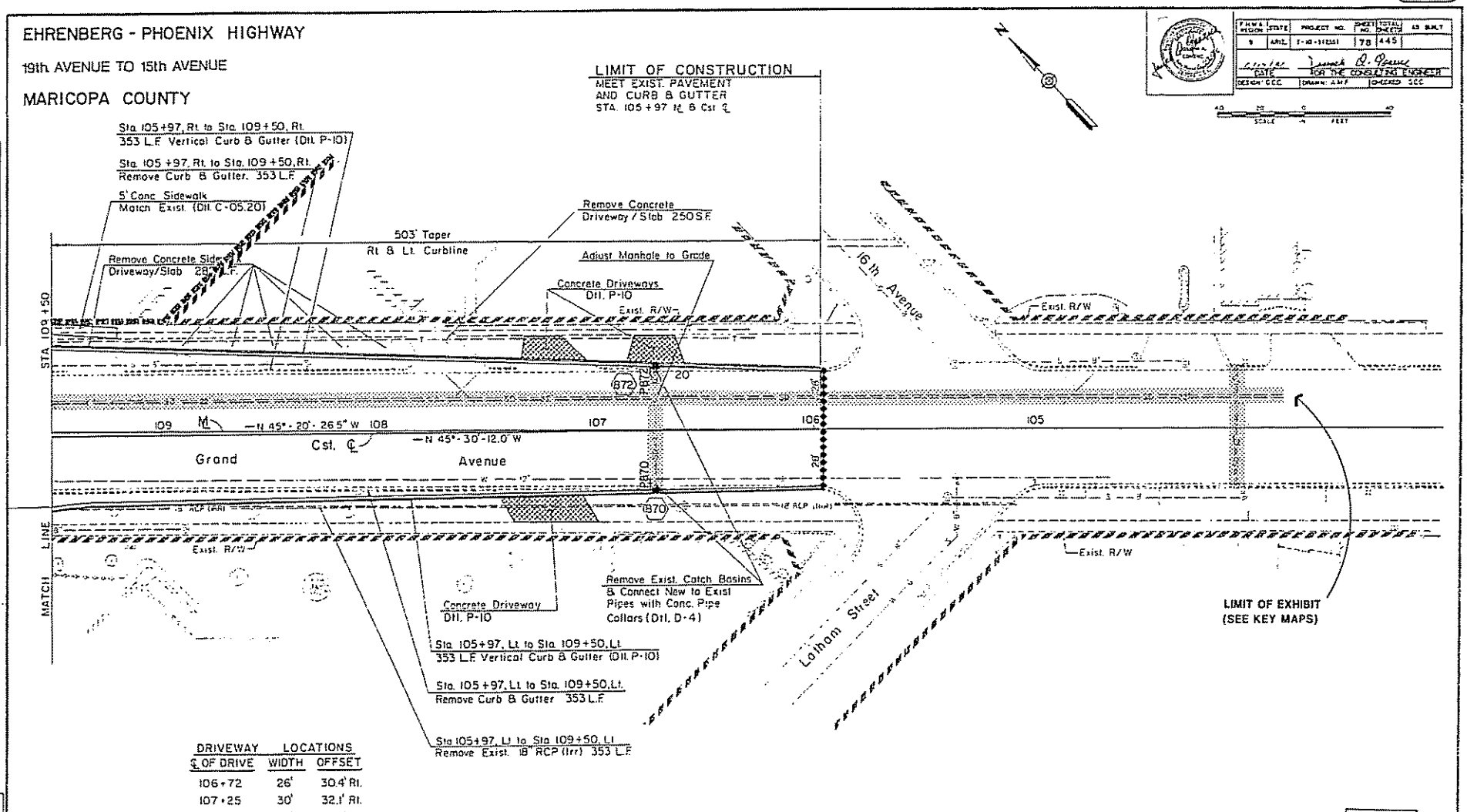
REVISED 8-3-93

B-28

EHRENBERG - PHOENIX HIGHWAY

19th AVENUE TO 15th AVENUE

MARICOPA COUNTY



DRIVEWAY ℄ OF DRIVE	LOCATIONS WIDTH	OFFSET
106+72	26'	30.4' Rt.
107+25	30'	32.1' Rt.
107+25	38'	29.3' Lt.

REDUCED SIZE DO NOT SCALE

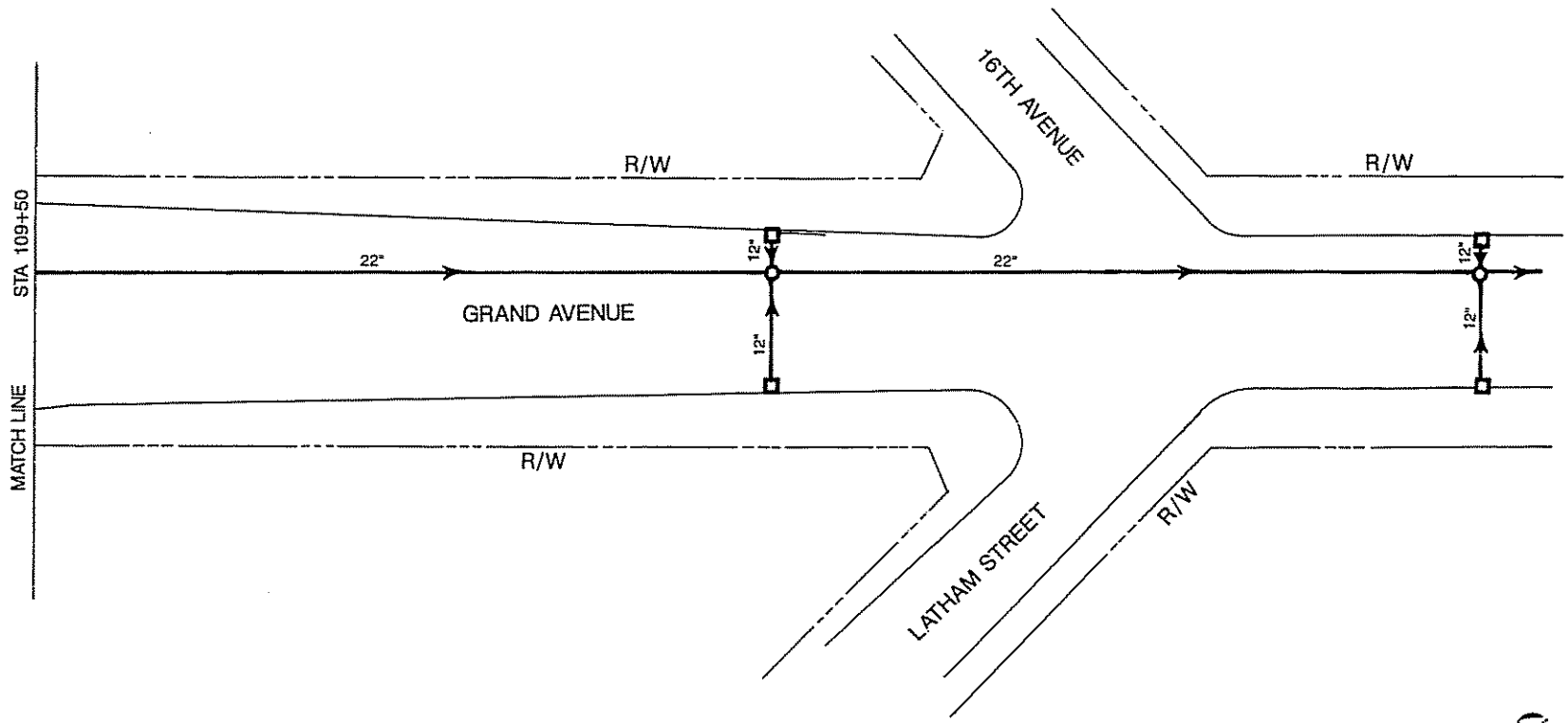
PAVING PLAN
GRAND AVENUE
STA. 105+97 to STA. 109+50

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(2)(5)	78	445	

DATE FOR THE CONSULTING ENGINEER
DESIGN: GCC DRAWN: AMF CHECKED: GCC

SCALE IN FEET

7 | 1-10-3(95) 3(160) PE | 31 OF 54

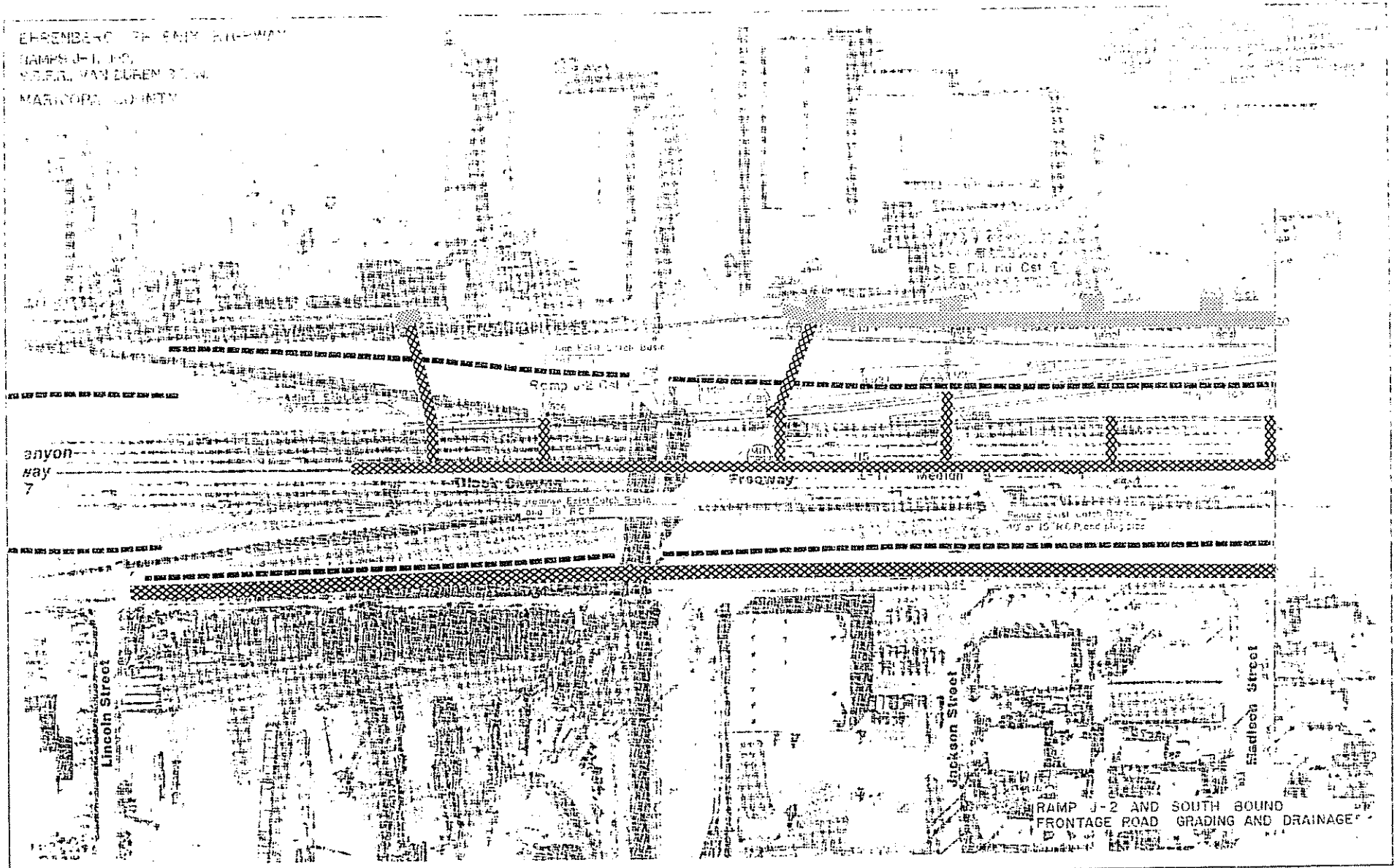


NTS

GRAND AVENUE STA 109+50 TO STA 104

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB



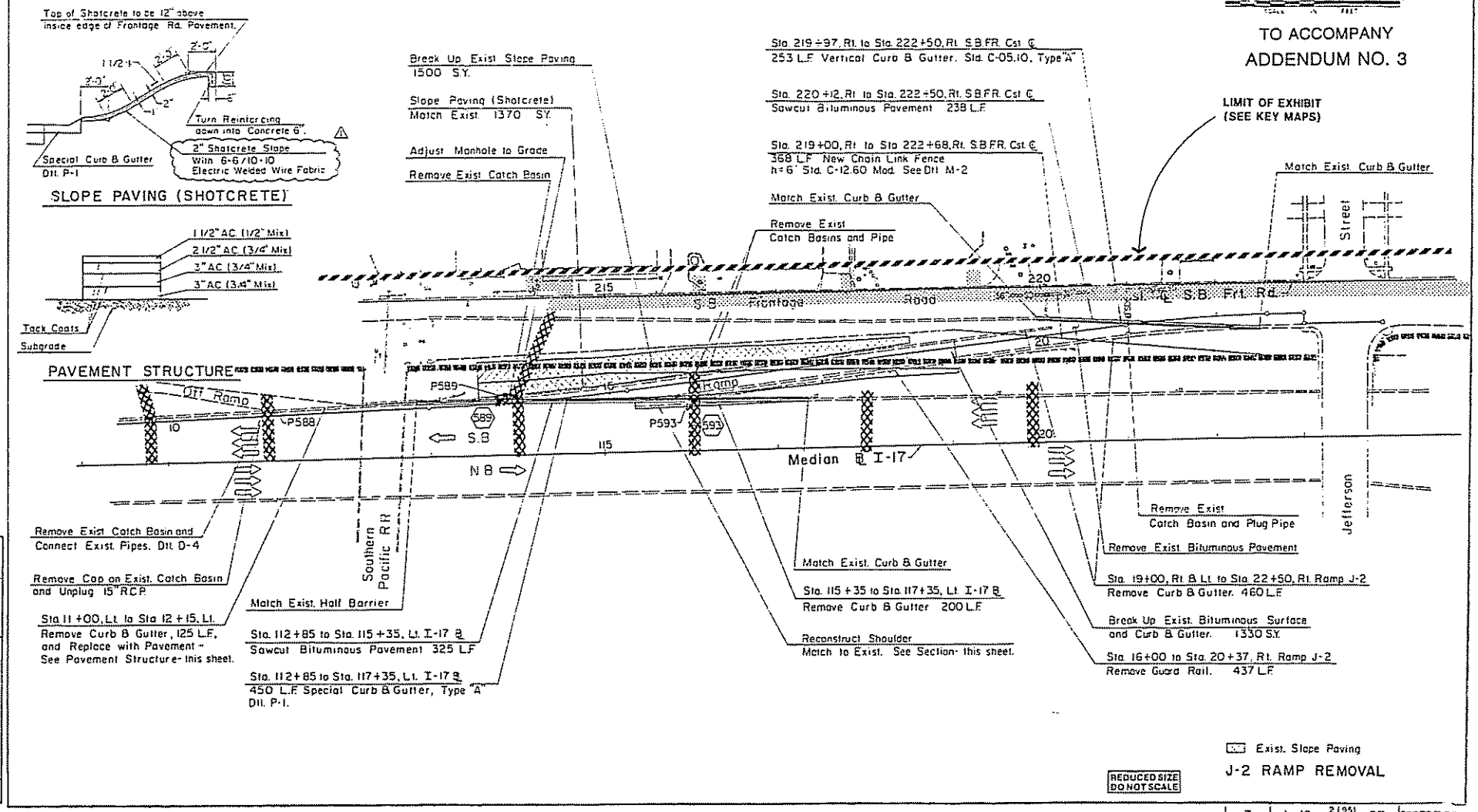
RAMP J-2 AND SOUTH BOUND
FRONTAGE ROAD GRADING AND DRAINAGE

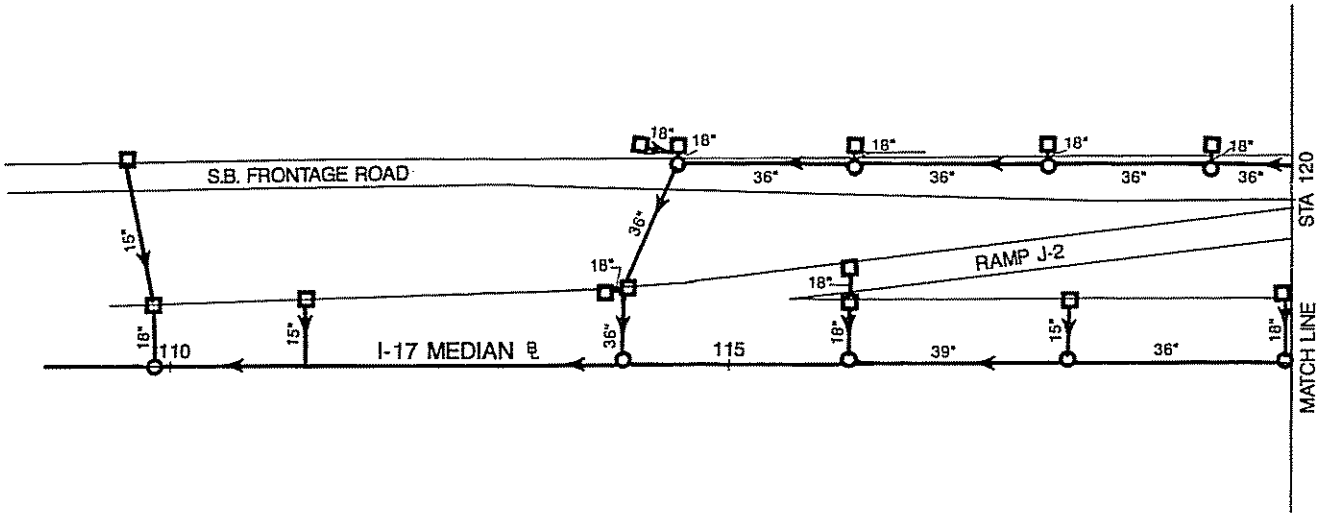
EHRENBERG - PHOENIX HIGHWAY

S.P.R.R. TO THOMAS ROAD

MARICOPA COUNTY

TO ACCOMPANY
ADDENDUM NO. 3



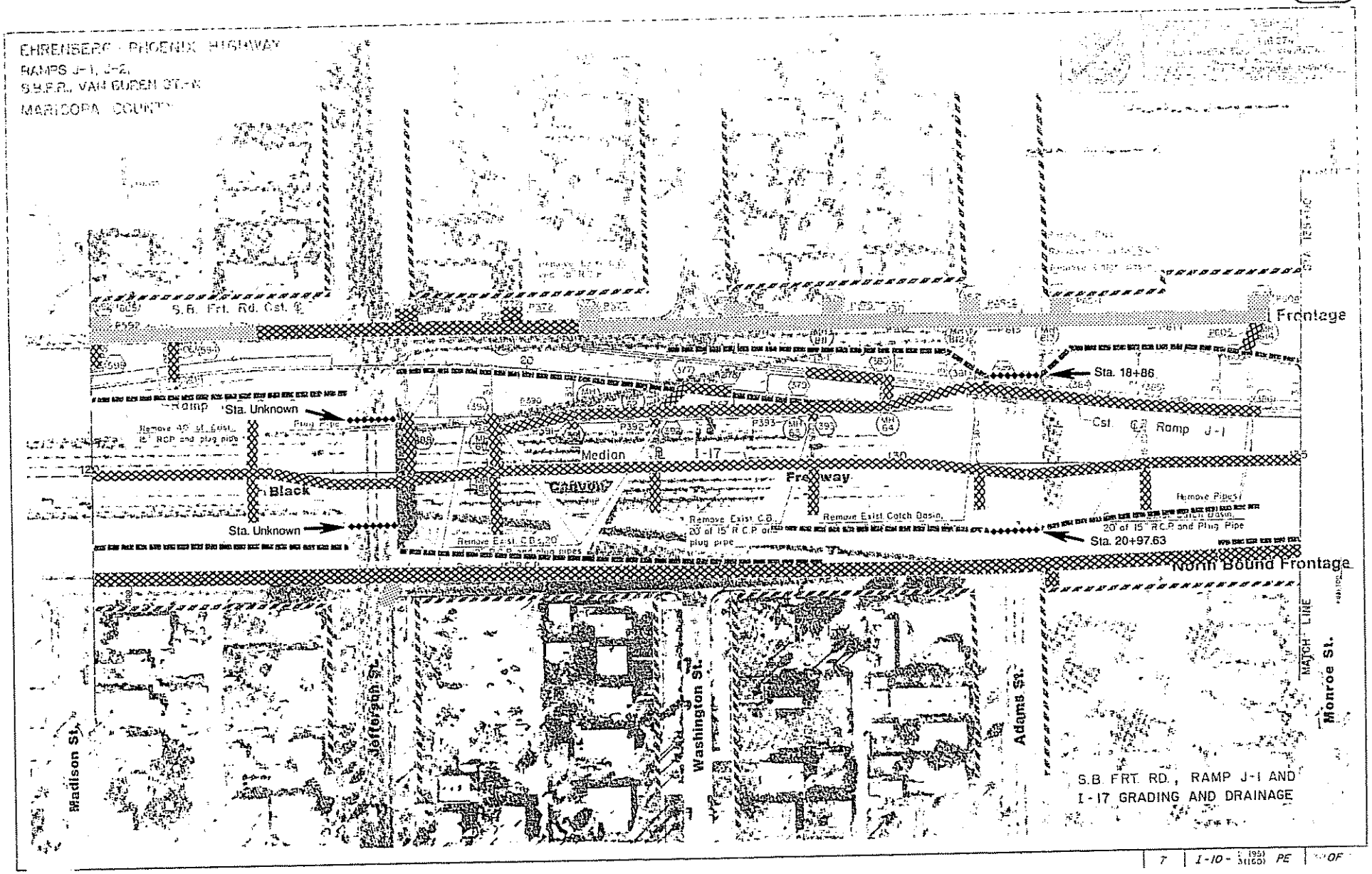


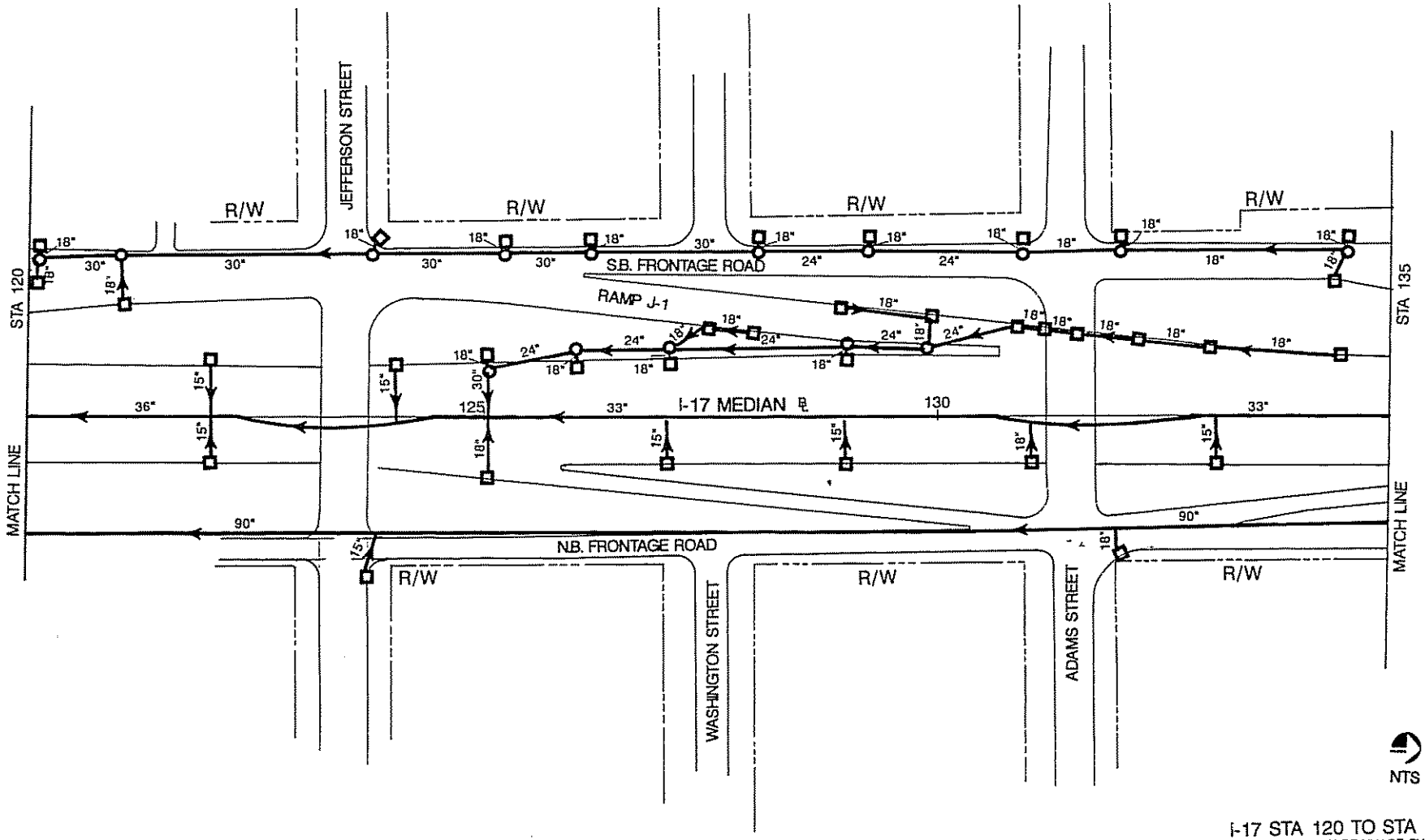
NTS

I-17 STA 109 TO STA 120

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

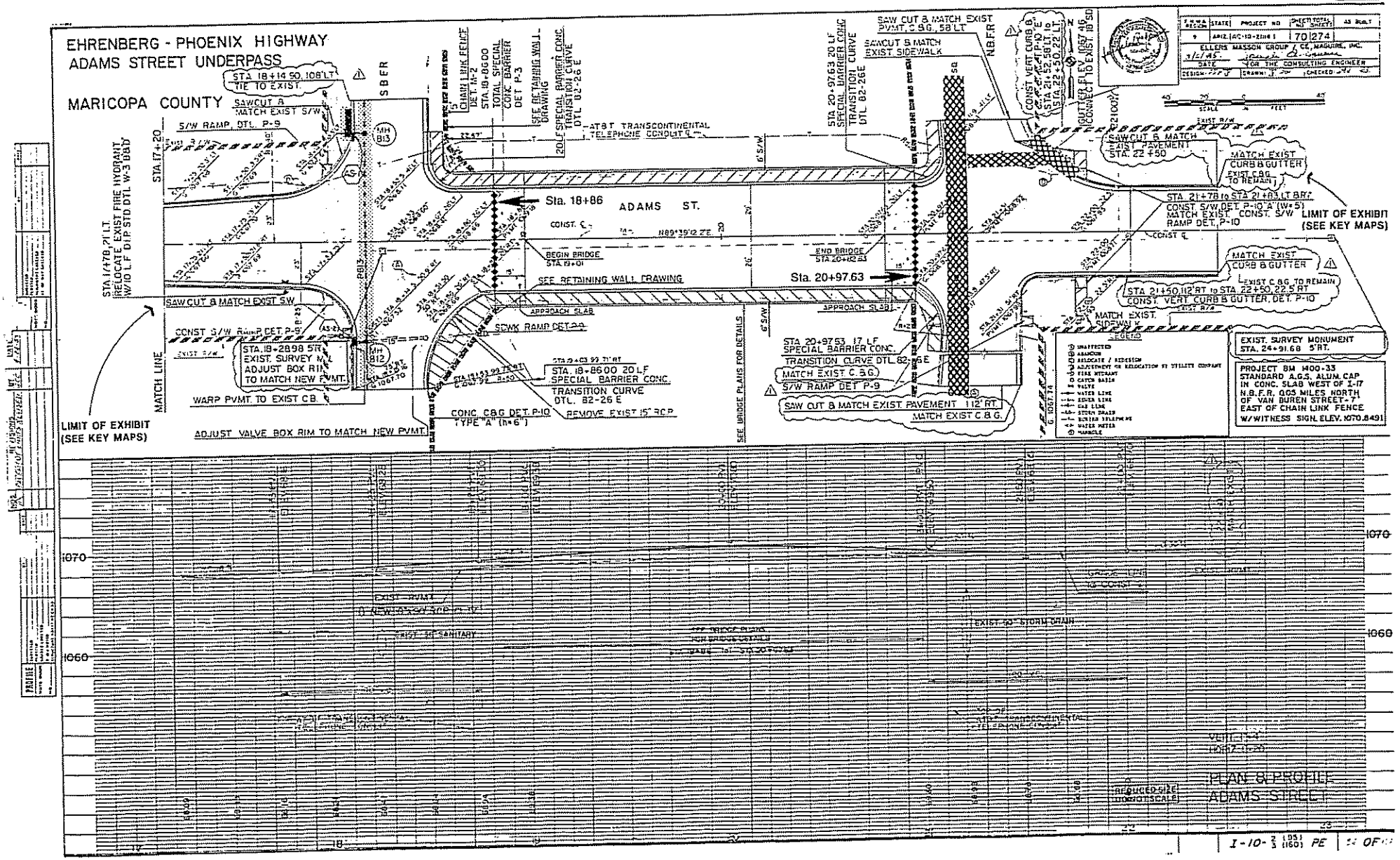

EHRENBERG - PHOENIX HIGHWAY
RAMPS J-1, J-2,
S.B.F.R., VAN BUREN ST.-N
MARICOPA COUNTY
S.B. Frt. Rd. Cst. ℄
Frontage
Sta. 18+86
Sta. Unknown
Ramp
Cst. ℄ Ramp J-1
Median ℄ I-17
Black
Canyon
Freeway
Remove Exist. C.B.
20' of 15" R.C.P. and plug pipe
Remove Exist. Catch Basin
Remove Pipes
20' of 15" R.C.P. and Plug Pipe
Sta. 20+97.63
North Bound Frontage
Madison St.
Jefferson St.
Washington St.
Adams St.
Monroe St.
MATCH LINE
S.B. FRT. RD., RAMP J-1 AND
I-17 GRADING AND DRAINAGE

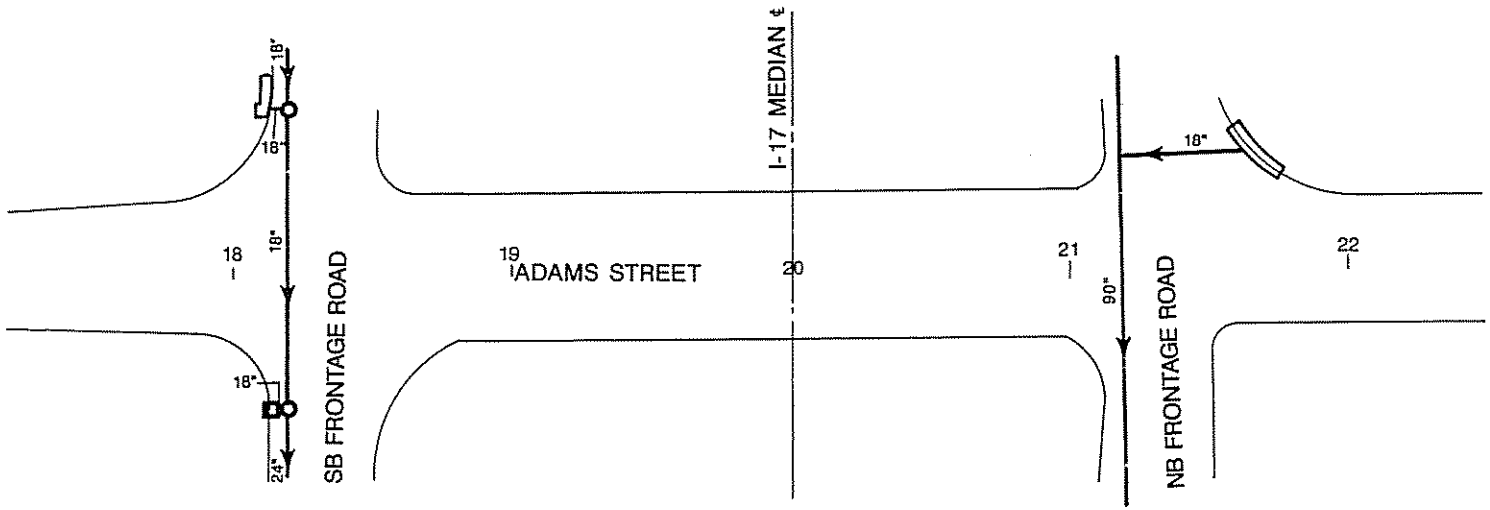


I-17 STA 120 TO STA 135

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


EHRENBERG - PHOENIX HIGHWAY
ADAMS STREET UNDERPASS
MARICOPA COUNTY
ADAMS ST.
Sta. 18+86
Sta. 20+97.63
LIMIT OF EXHIBIT (SEE KEY MAPS)
MATCH LINE
SBFR
N.B.F.R.
SEE RETAINING WALL DRAWING
APPROACH SLAB
SEE BRIDGE PLANS FOR DETAILS
EXIST. SURVEY MONUMENT STA. 24+91.68 5'RT.
PROJECT BM 1400-33 STANDARD A.G.S. ALUM. CAP IN CONC. SLAB WEST OF I-17 N.B.F.R. 0.05 MILES NORTH OF VAN BUREN STREET-7' EAST OF CHAIN LINK FENCE W/WITNESS SIGN. ELEV. 1070.8491
PLAN & PROFILE ADAMS STREET
1070
1060

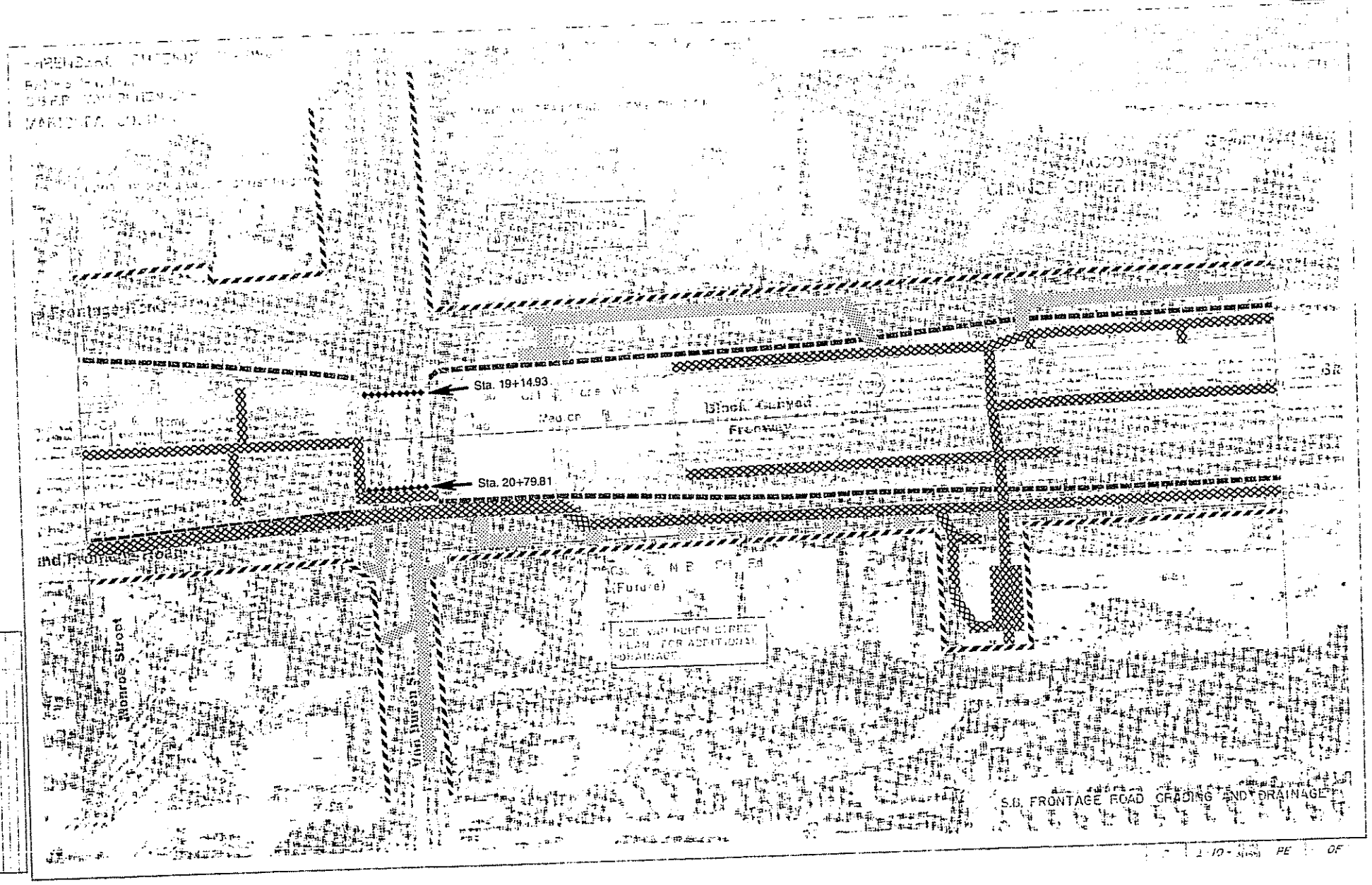


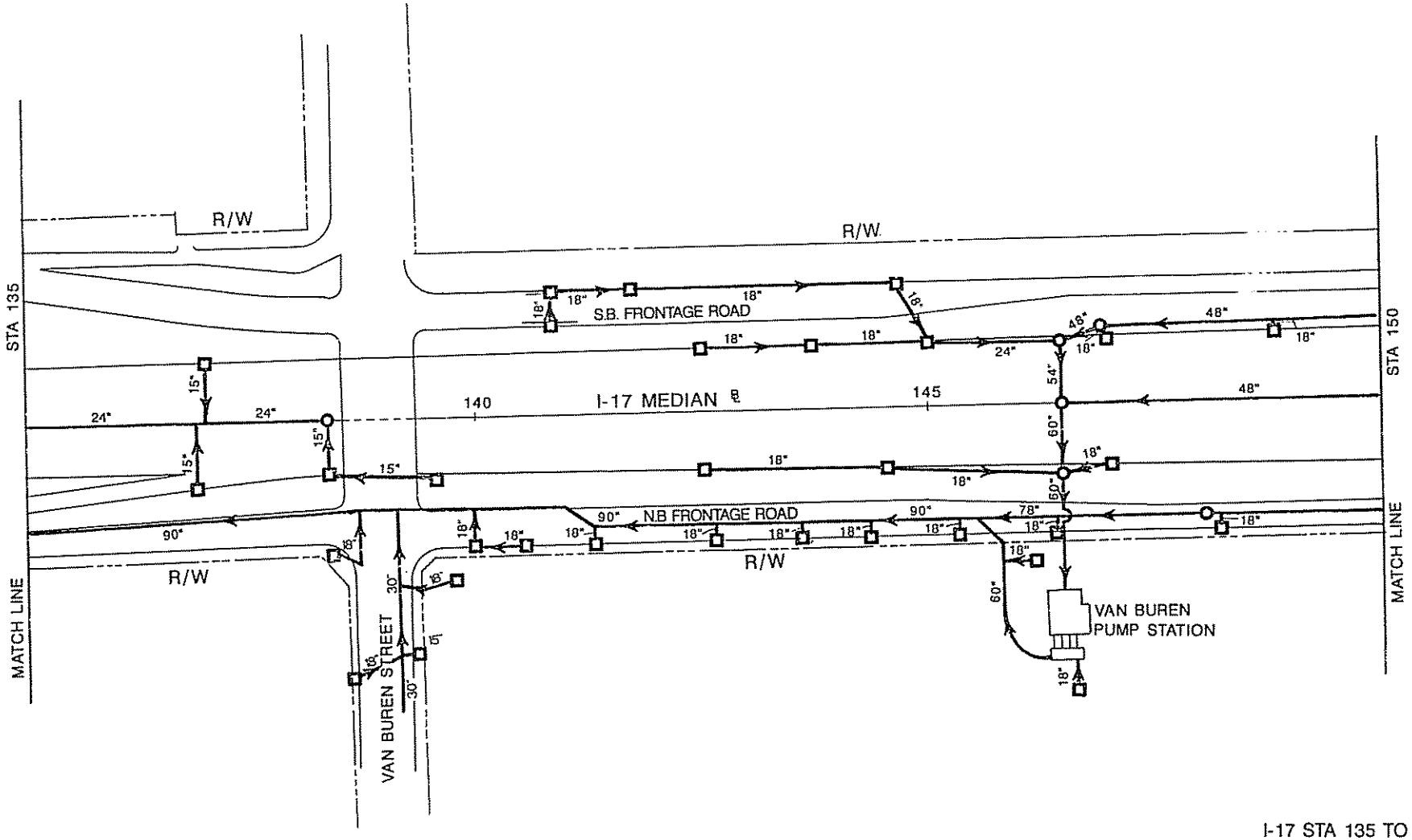
NTS

ADAMS ST STA 18 TO STA 22

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


Sta. 19+14.93
Sta. 20+79.81
(Future)
Monroe Street
S.D. FRONTAGE ROAD GRADING AND DRAINAGE



NTS

I-17 STA 135 TO STA 150

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

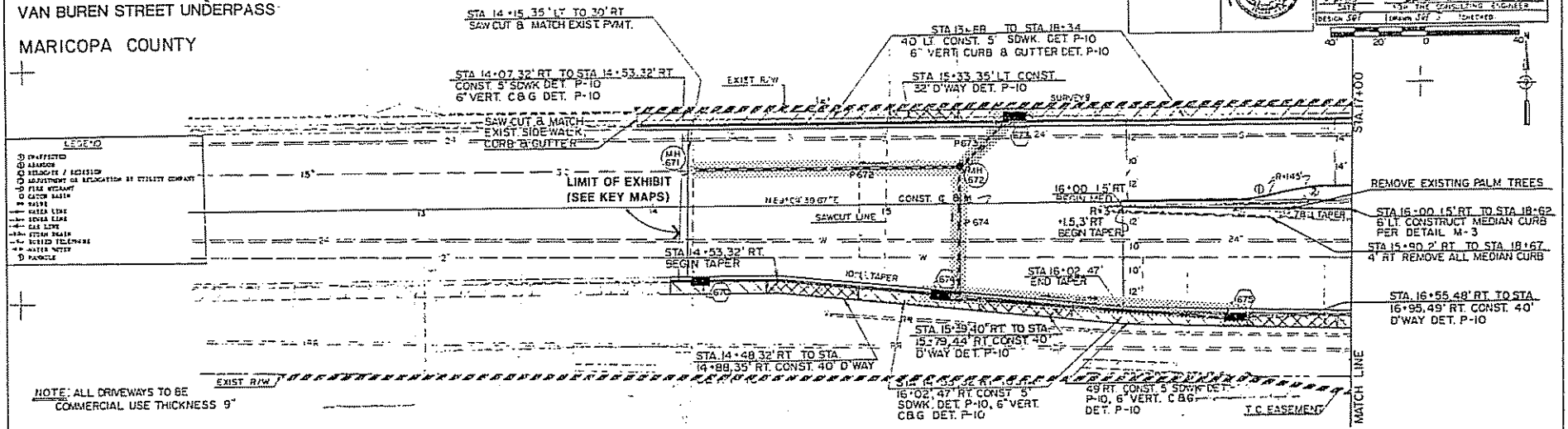
HNTB

EHRENBERG - PHOENIX HIGHWAY

VAN BUREN STREET UNDERPASS

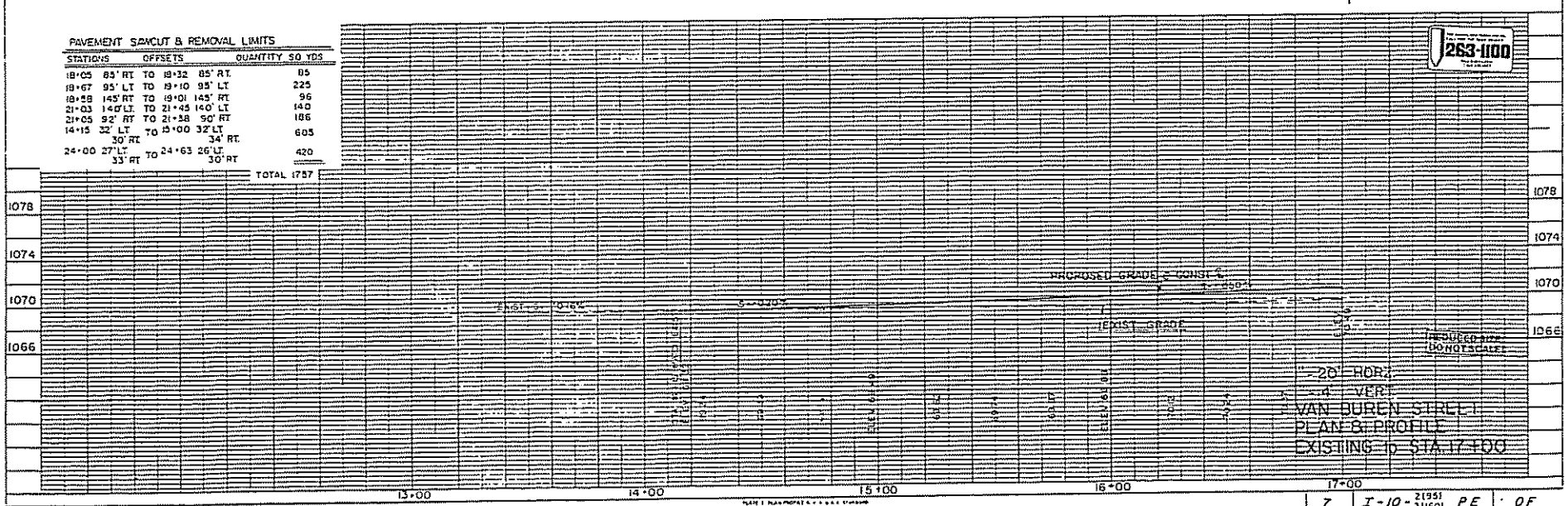
MARICOPA COUNTY

NOTE: FOR CURVE DATA (ie. STATIONS, OFFSETS, & RADII) DENOTED BY: 1, 2, 3, Etc., SEE VAN BUREN PLAN/PROFILE SHEET



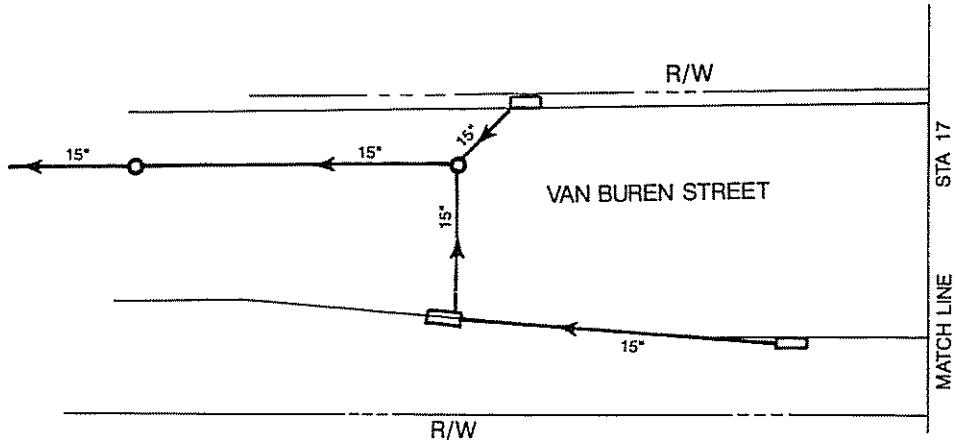
PAVEMENT SAWCUT & REMOVAL LIMITS

STATIONS	OFFSETS	QUANTITY SQ YDS
18+05 85' RT TO 18+32 85' RT		85
18+67 95' LT TO 19+10 95' LT		225
18+58 145' RT TO 19+01 145' RT		96
21+03 140' LT. TO 21+45 140' LT		140
21+05 92' RT TO 21+38 90' RT		186
14+15 32' LT 30' RT TO 15+00 32' LT 34' RT		605
24+00 27' LT 33' RT TO 24+63 26' LT 30' RT		420
TOTAL		1757



263-1100

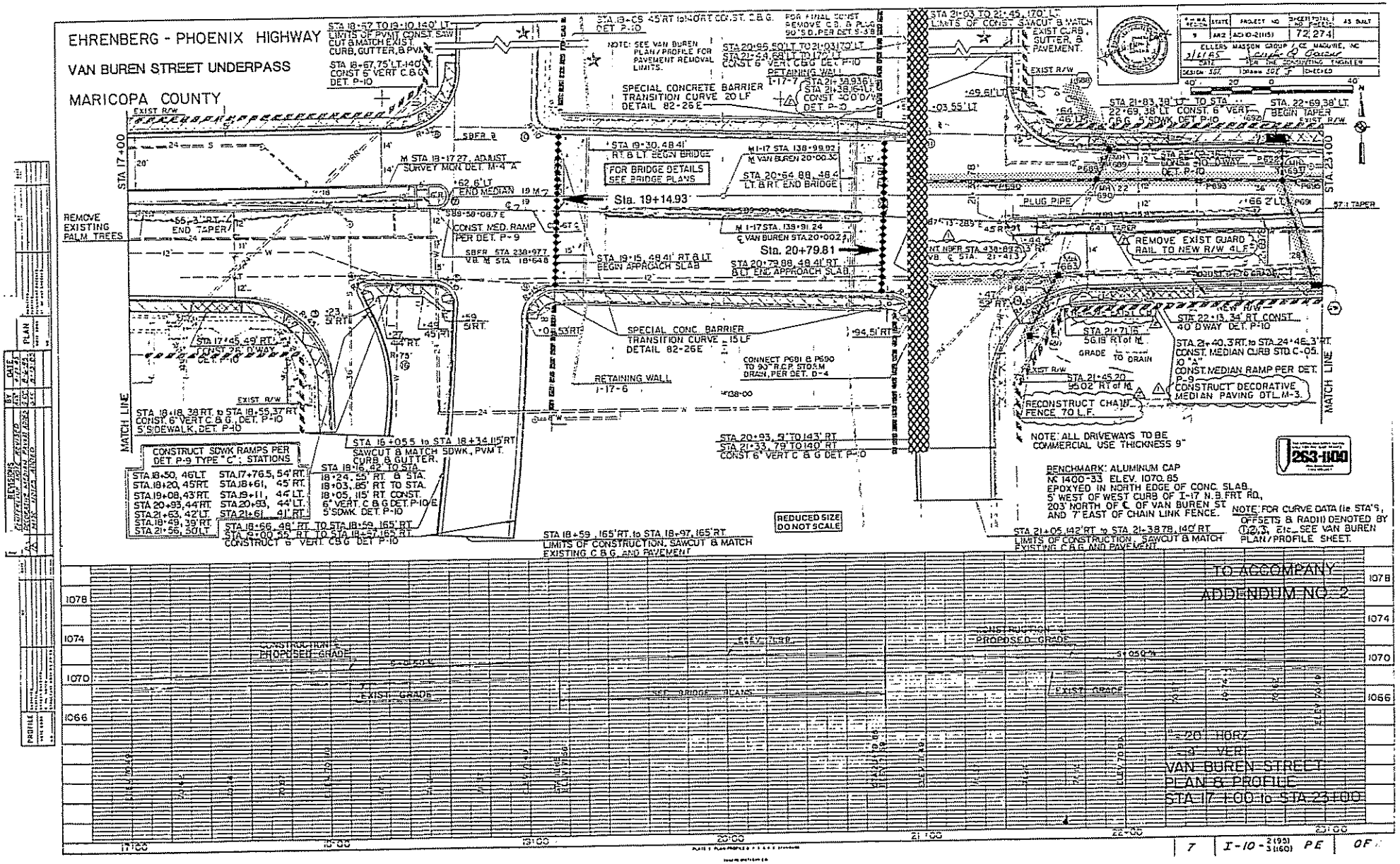
7	I-10-2(951) 311601	PE	OF

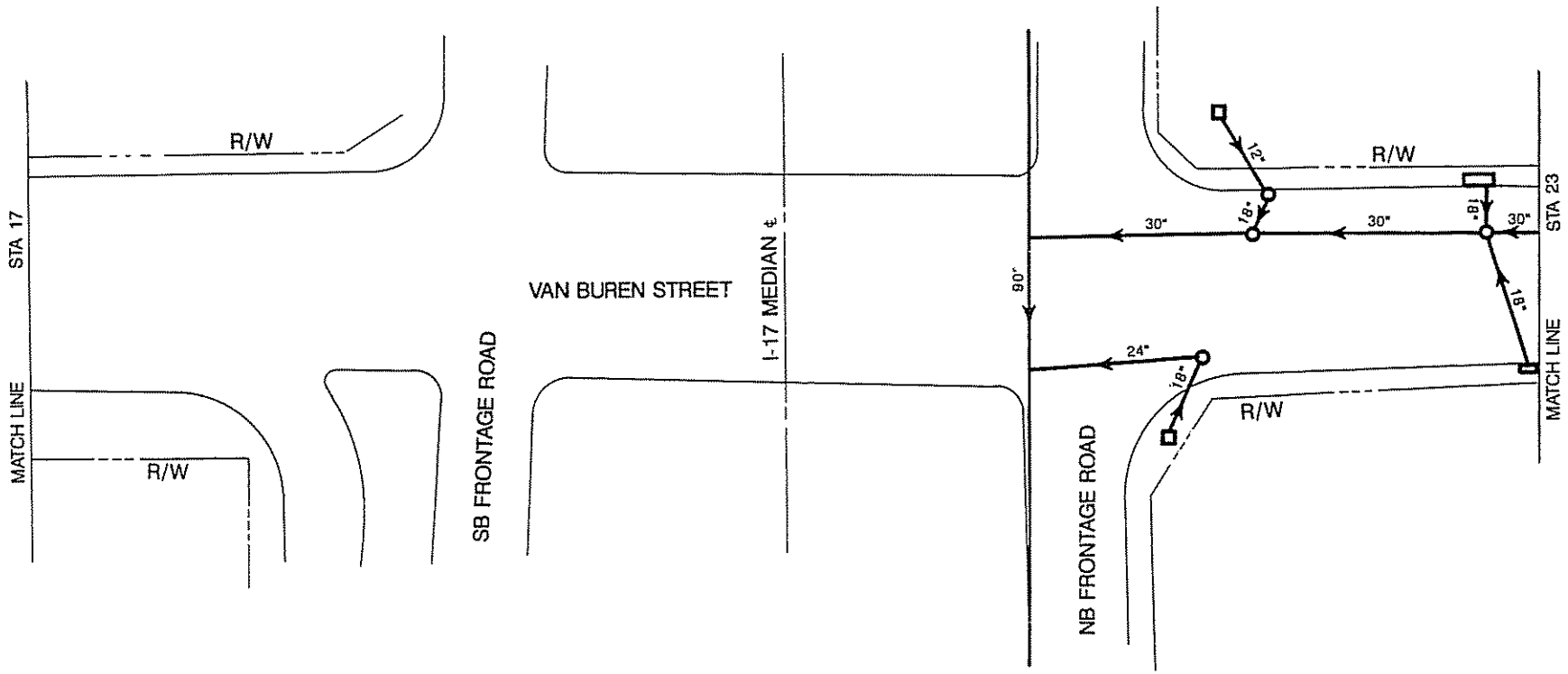


NTS

VAN BUREN STREET STA 14 TO STA 17
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


EHRENBERG - PHOENIX HIGHWAY
VAN BUREN STREET UNDERPASS
MARICOPA COUNTY
STA 17+00
STA 23+00
MATCH LINE
REMOVE EXISTING PALM TREES
Sta. 19+14.93
Sta. 20+79.81
FOR BRIDGE DETAILS SEE BRIDGE PLANS
SPECIAL CONCRETE BARRIER TRANSITION CURVE 20 LF DETAIL 82-26E
SPECIAL CONC. BARRIER TRANSITION CURVE 15 LF DETAIL 82-26E
RETAINING WALL I-17-6
RETAINING WALL I-17-7
CONSTRUCT SDWK RAMPS PER DET. P-9 TYPE "C"; STATIONS
STA 18+50, 46' LT.
STA 18+20, 45' RT.
STA 19+08, 43' RT.
STA 20+93, 44' RT.
STA 21+63, 42' LT.
STA 18+49, 39' RT.
STA 21+56, 30' LT.
STA 17+76.5, 54' RT.
STA 18+61, 45' RT.
STA 19+11, 44' LT.
STA 20+53, 44' LT.
STA 21+61, 41' RT.
REDUCED SIZE DO NOT SCALE
NOTE: ALL DRIVEWAYS TO BE COMMERCIAL, USE THICKNESS 9"
BENCHMARK: ALUMINUM CAP NC 1400-33 ELEV. 1070.85 EPOXYED IN NORTH EDGE OF CONC. SLAB, 5' WEST OF WEST CURB OF I-17 N.B. FRT RD., 203' NORTH OF ℄ OF VAN BUREN ST AND 7' EAST OF CHAIN LINK FENCE.
NOTE: FOR CURVE DATA (ie. STA'S, OFFSETS & RADII) DENOTED BY ①②③, Etc. SEE VAN BUREN PLAN/PROFILE SHEET.
TO ACCOMPANY ADDENDUM NO. 2
VAN BUREN STREET PLAN & PROFILE STA 17+00 to STA 23+00
1078
1074
1070
1066
EXIST. GRADE
PROPOSED GRADE
SEE BRIDGE PLANS
17+00
18+00
19+00
20+00
21+00
22+00
23+00
7
I-10-2(93) 3(160) PE
OF



NTS

VAN BUREN STREET STA 17 TO STA 23

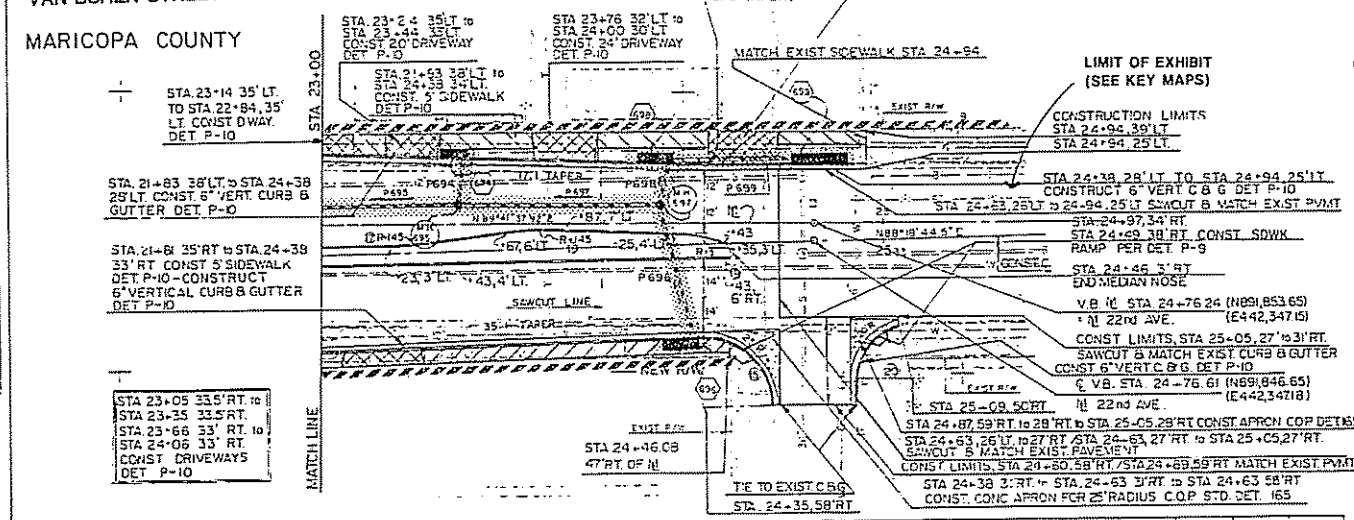
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

EHRENBERG - PHOENIX HIGHWAY

VAN BUREN STREET UNDERPASS

MARICOPA COUNTY



FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	ARIZ.	ACHO-2 (105)	721	274

ELLERS MASSON GROUP / CE VIGILIRE, INC.
3/6/85 DATE
FOR THE CONSULTING ENGINEER
DESIGN ENG. DRAWN ENG. CHECKED

40 20 0 40

○ CONST CURB & GUTTER RETURNS PER DETAIL P-10

CURVE DATA TABLE

NO.	RADIUS	OFFSET	STATION	RADIUS POINT	
①	145'	10' LT	16+39	16+39	145' LT
		35' LT	16+70		
②	145'	35' LT	16+70	16+95	135' RT
		60' LT	16+90		
● ③	45'	49.0' RT	17+57	17+57	94' RT
		85.0' RT	18+03		
④	3'	44.0' RT	18+19	18+22	42' RT
		39.0' RT	18+22		
● ⑤	10'	38.0' RT	18+55	18+55	48' RT
		48.0' RT	18+65		
⑦	6'	0.5' LT	18+56	19+56	6.5' LT
		12.5' LT	18+56		
● ⑧	32'	39.0' LT	18+33	18+32	71' LT
		73.0' LT	18+64		
● ⑨	15'	65.0' RT	19+00	19+15	55 RT
		40.0' RT	19+15		
● ⑩	10'	40.0' LT	19+13	19+13	50' LT
		20.0' LT	19+03		
● ⑪	10'	40.0' LT	20+88	20+88	50' LT
		50.0' LT	20+98		
● ⑫	10'	41.0' RT	20+86	20+86	51' RT
		50.0' RT	20+97		
● ⑬	30'	68.0' LT	21+44	21+74	68' LT
		38.0' LT	21+74		
● ⑭	50'	85.0' RT	21+39	21+85	84' RT
		34.0' RT	21+84		
● ⑮	25'	33.0' RT	24+35	23+35	58' RT
		58.0' RT	24+63		
● ⑯	75'	55.0' RT	18+24	17+60	54' RT
		115.0' RT	18+32		
⑰	145'	3.0' LT	23+23	23+37	146' LT
		4.0' LT	23+43		
⑱	145'	6.0' LT	23+67	23+82	137' RT
		7.0' LT	23+67		
⑲	3'	5.0' RT	23+43	24+43	3' RT
		0.0	24+45		
● ⑳	20'	50.0' RT	24+89	25+09	50' RT
		31.0' RT	25+05		

NOTE: ALL DRIVEWAYS TO BE 9" COMMERCIAL USE THICKNESS

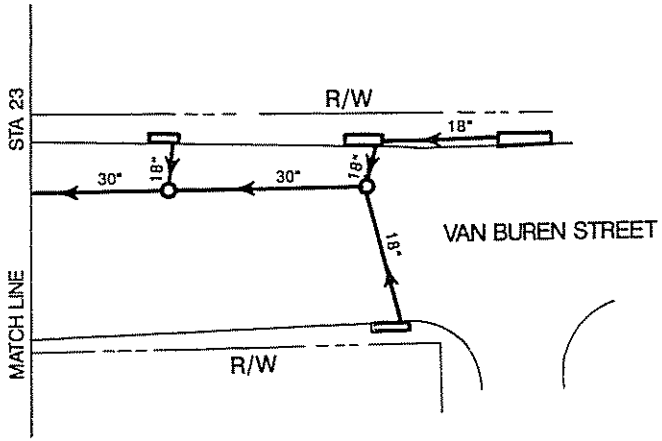
283-100

20' - HORZ
4' - VERT

REDUCED 1/2 DO NOT SCALE

VAN BUREN STREET
PLAN & PROFILE
STA 23+00 to EXISTING

7	I-10-5 (391) (160)	PE	OF

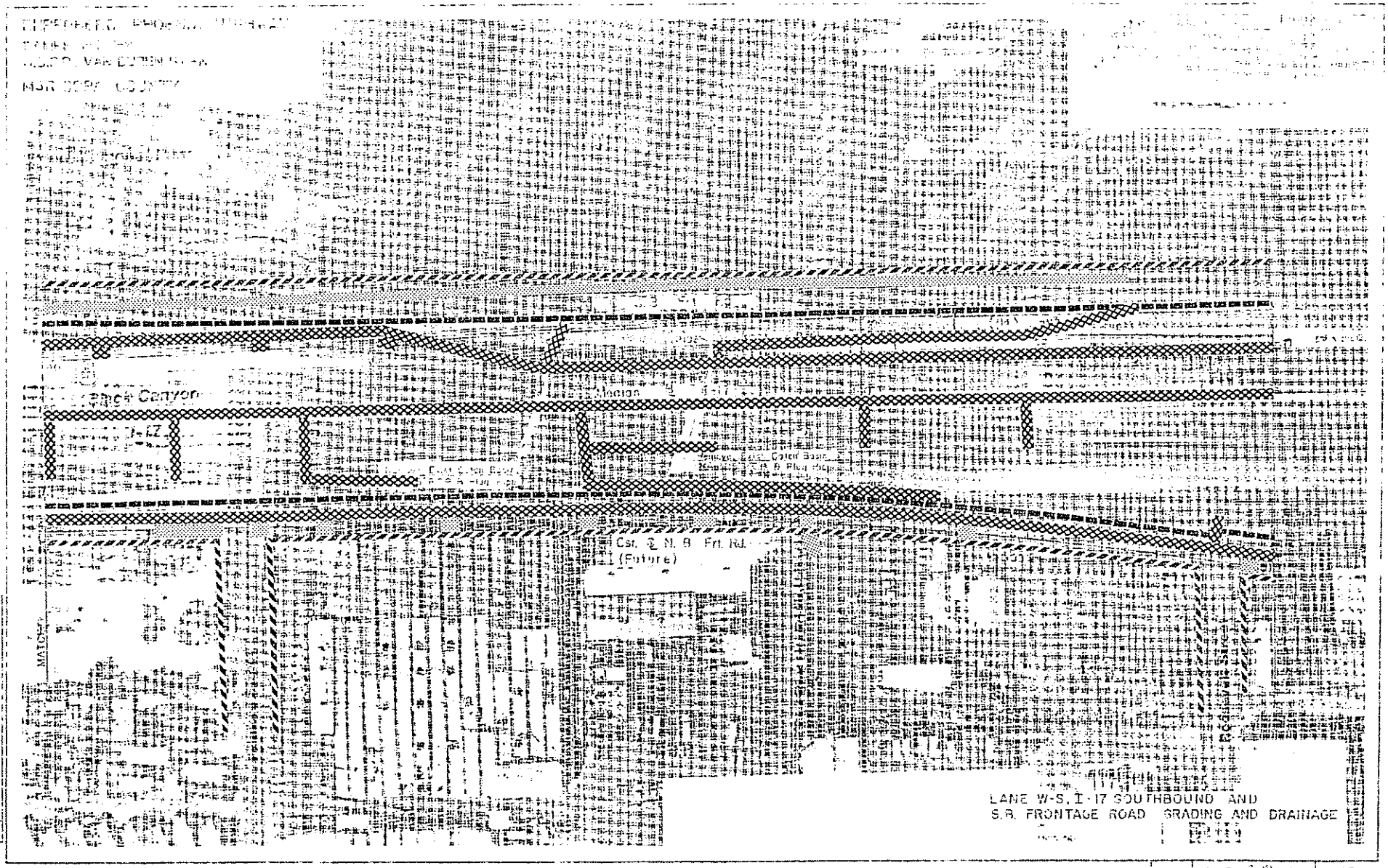


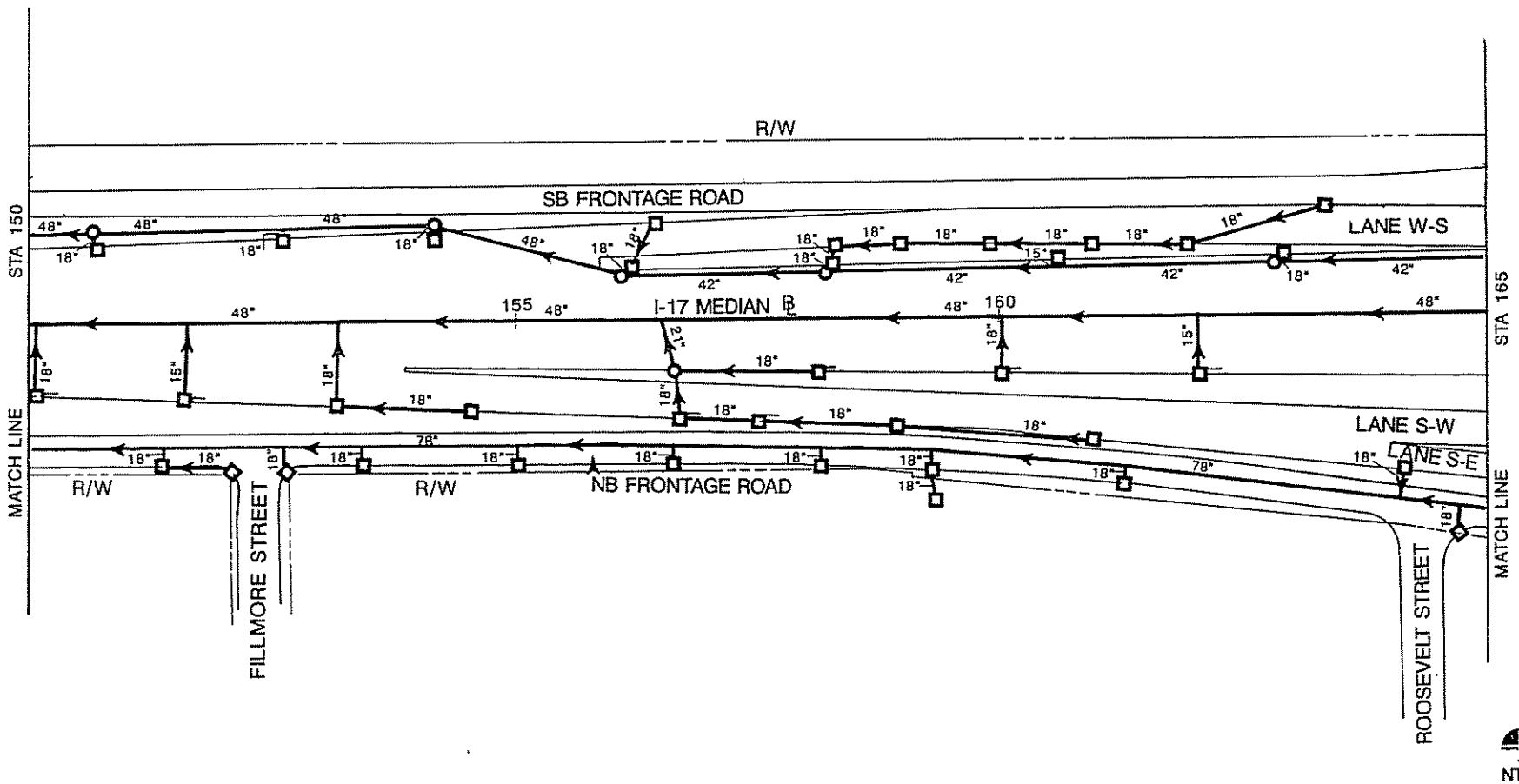
NTS

VAN BUREN STREET STA 23 TO STA 25

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


Black Canyon
Median
Csr. ℄ N. B. Frt. Rd.
(Future)
MATCH
LANE W-S, I-17 SOUTHBOUND AND
S.B. FRONTAGE ROAD GRADING AND DRAINAGE

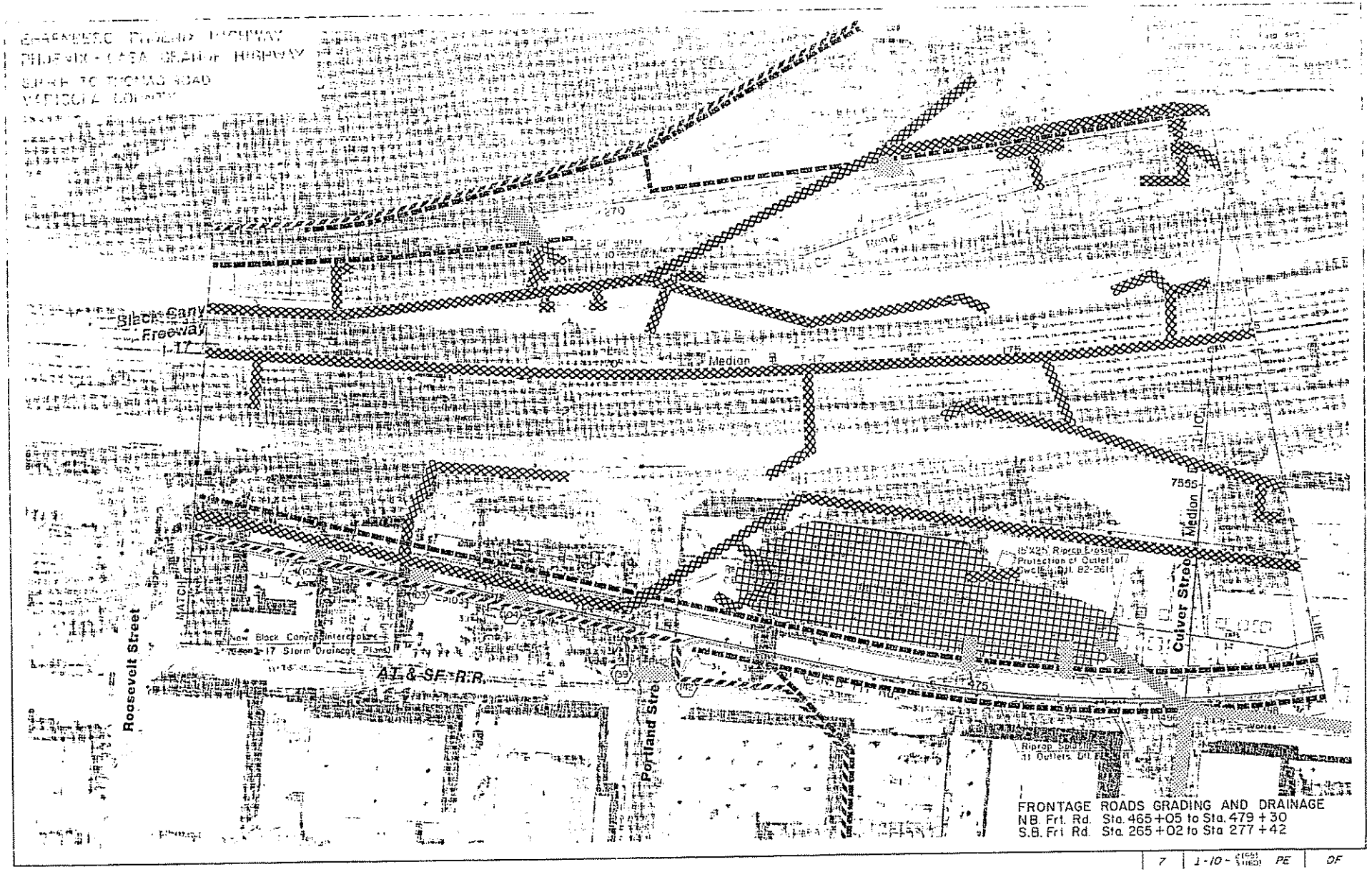


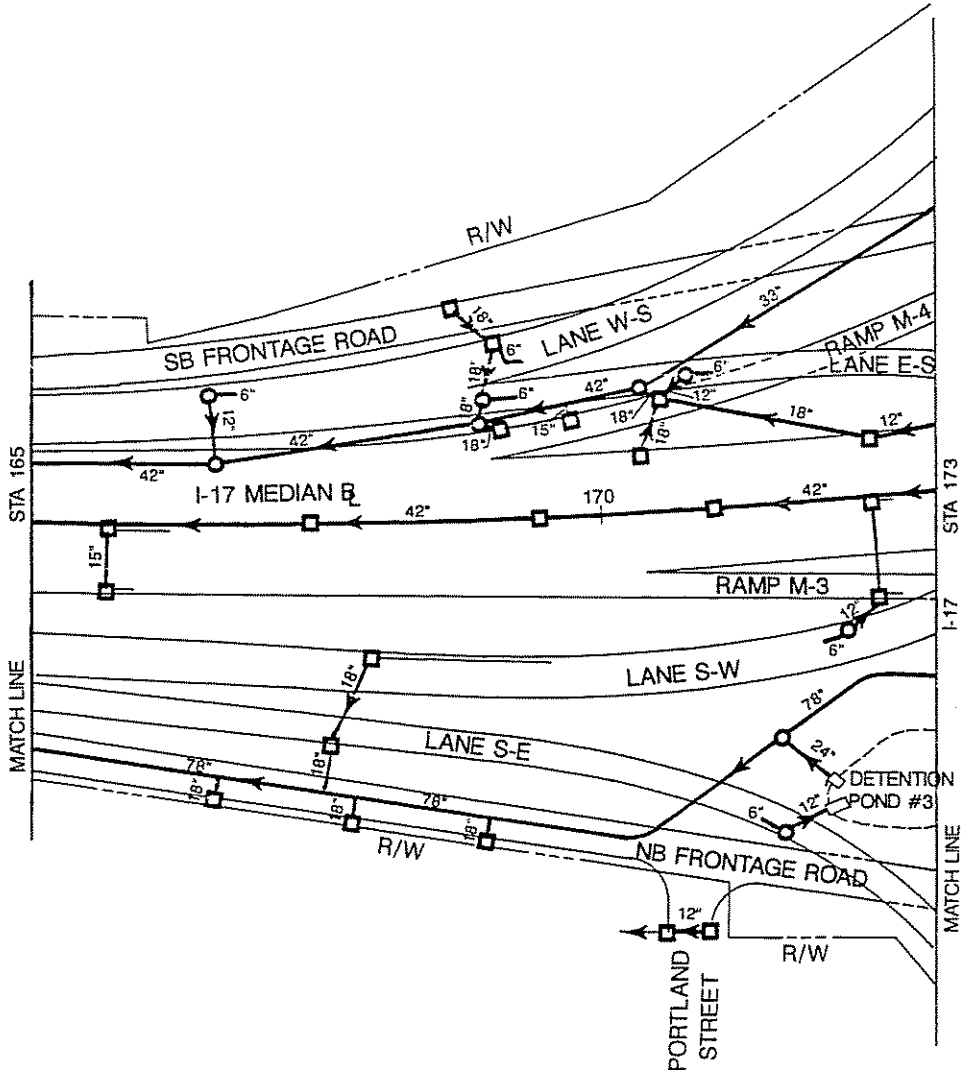
NTS

I-17 STA 150 TO STA 165

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


Black Canyon Freeway
I-17
Median
Roosevelt Street
Portland Street
Culver Street
AT & SF R.R.
New Black Canyon Interceptor
Storm Drainage Plans
15'X25' Riprap Erosion Protection at Outlet of Swale
Riprap Splash at Outlets
7555
FRONTAGE ROADS GRADING AND DRAINAGE
N.B. Frt. Rd. Sta. 465+05 to Sta. 479+30
S.B. Frt. Rd. Sta. 265+02 to Sta. 277+42

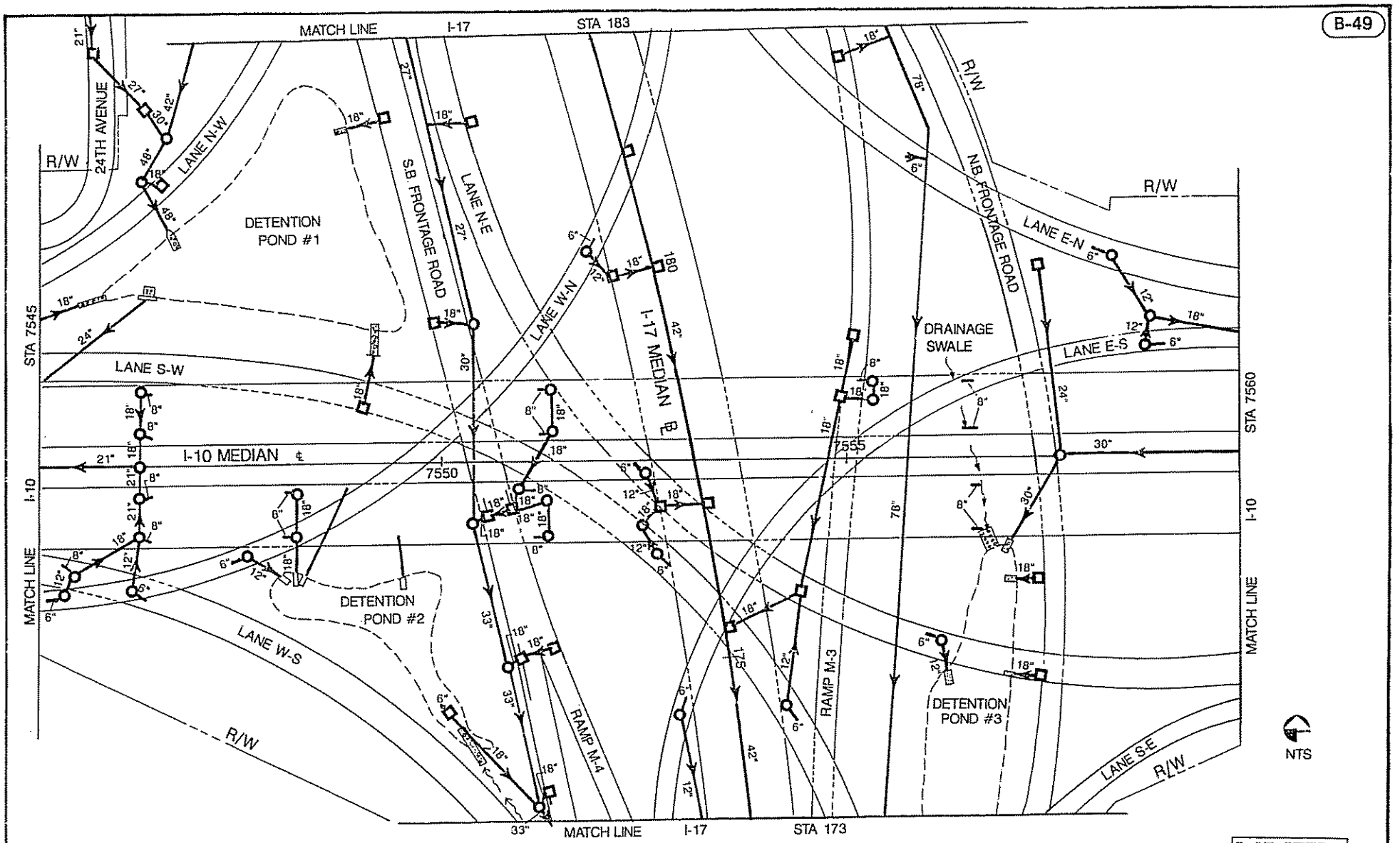


NTS

I-17 STA 165 TO STA 173

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

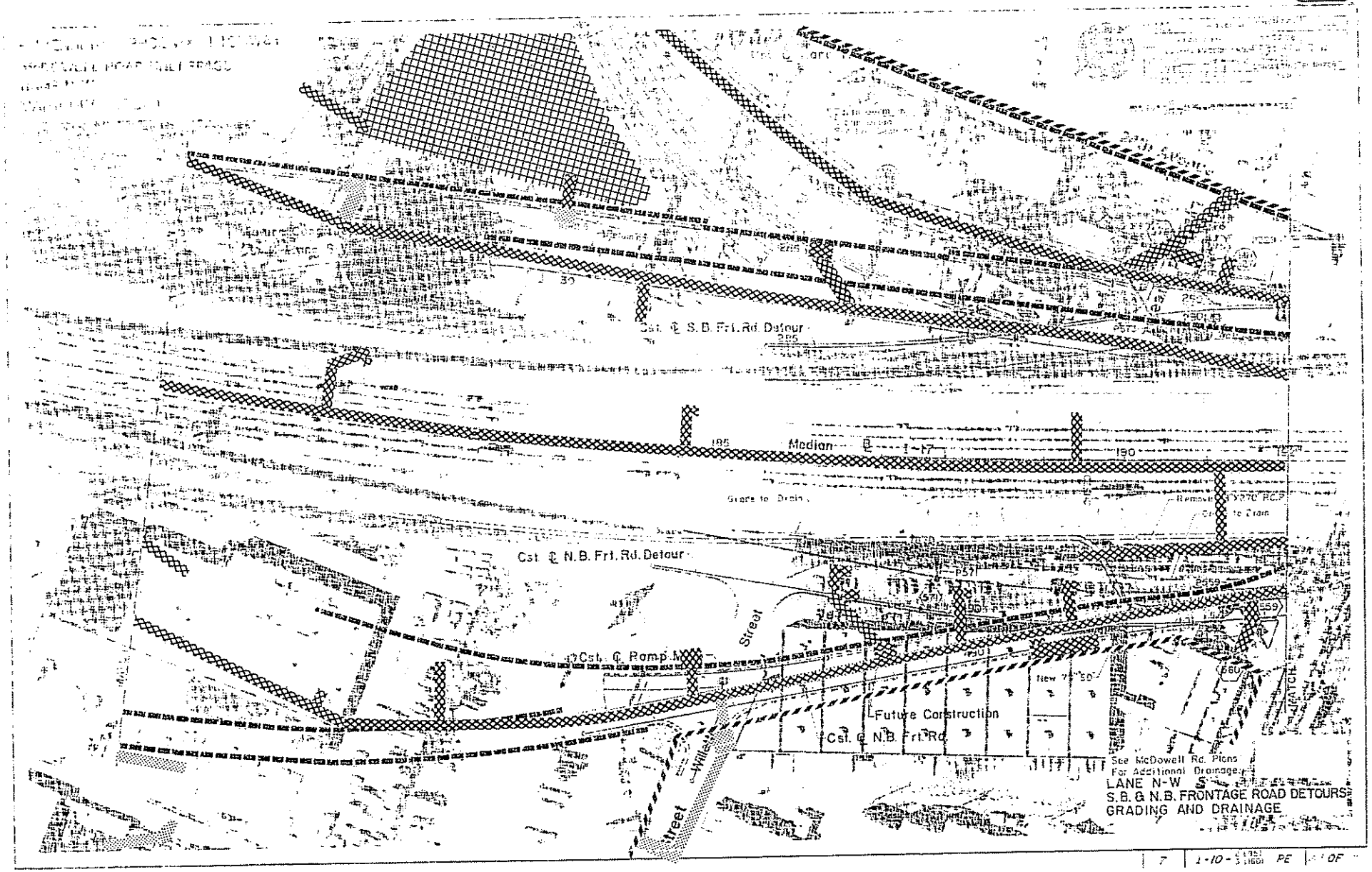
HNTB

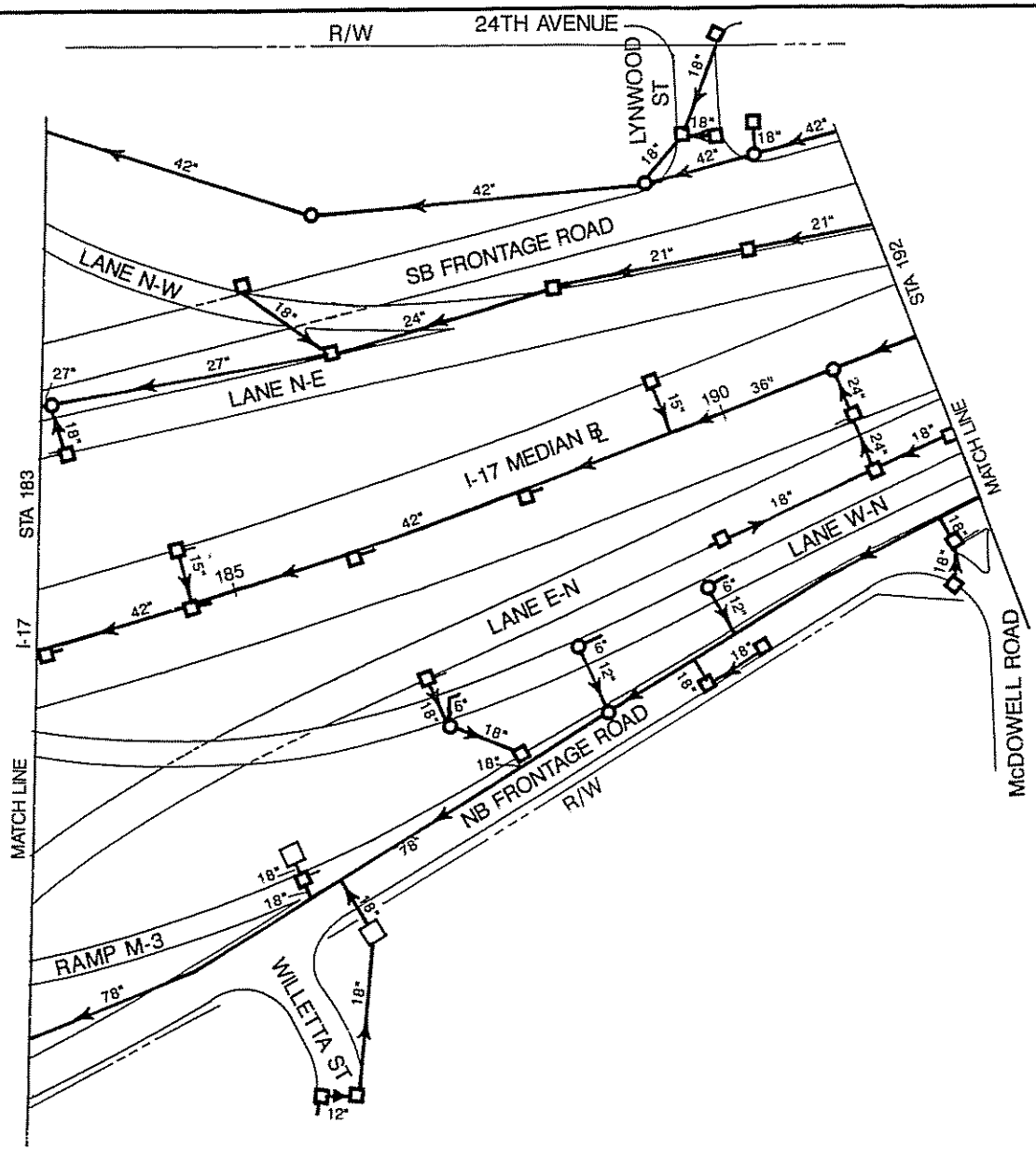


I-10/I-17 INTERCHANGE: I-10 STA 7545 TO STA 7560, I-17 STA 173 TO STA 183

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


Csl. ℄ S.B. Frt. Rd. Detour
Median
Grade to Drain
Cst ℄ N.B. Frt. Rd. Detour
Csl. ℄ Ramp M
Street
Future Construction
Csl. ℄ N.B. Frt. Rd.
Street
See McDowell Rd. Plans
For Additional Drainage
LANE N-W
S.B. & N.B. FRONTAGE ROAD DETOURS
GRADING AND DRAINAGE

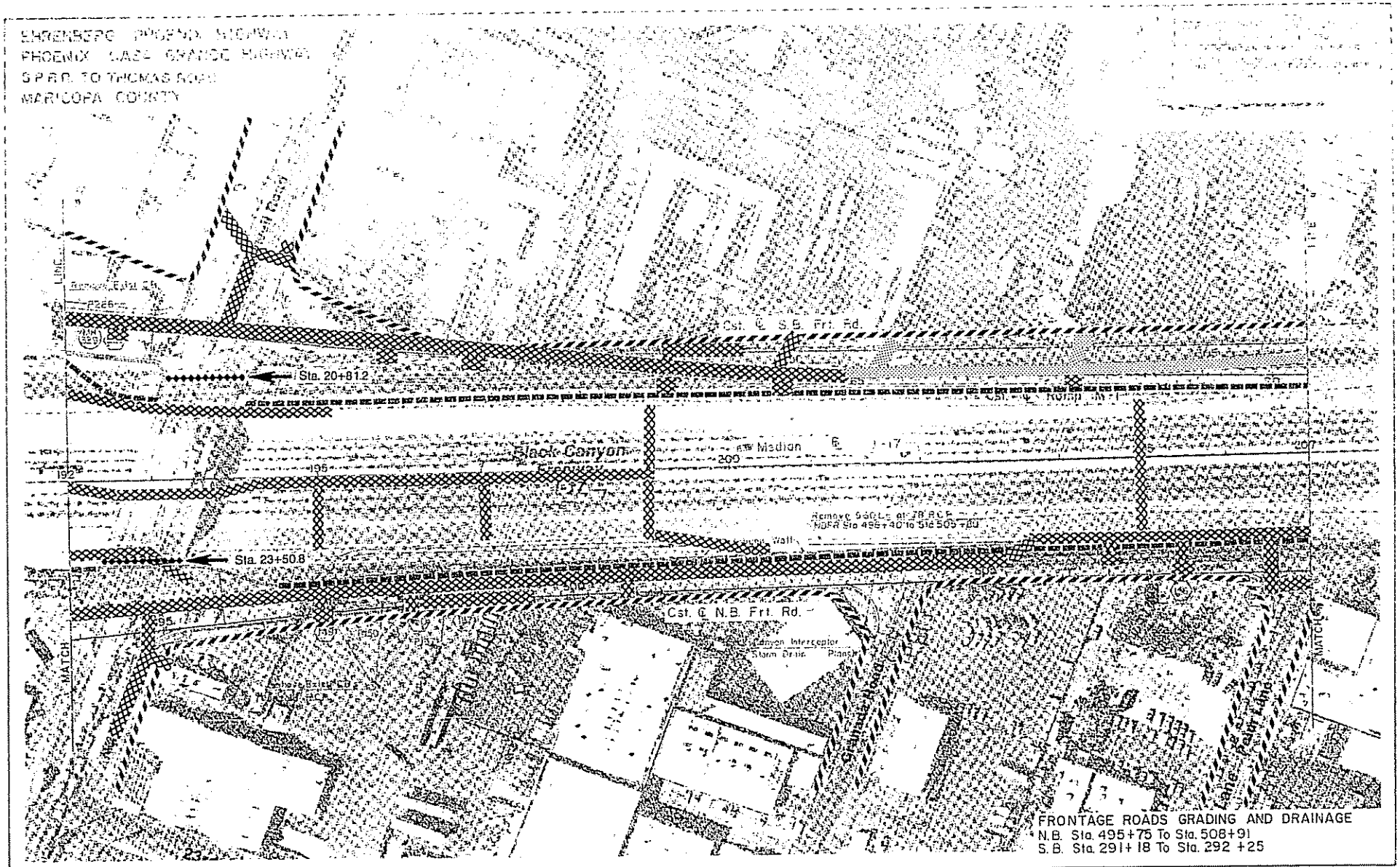


NTS

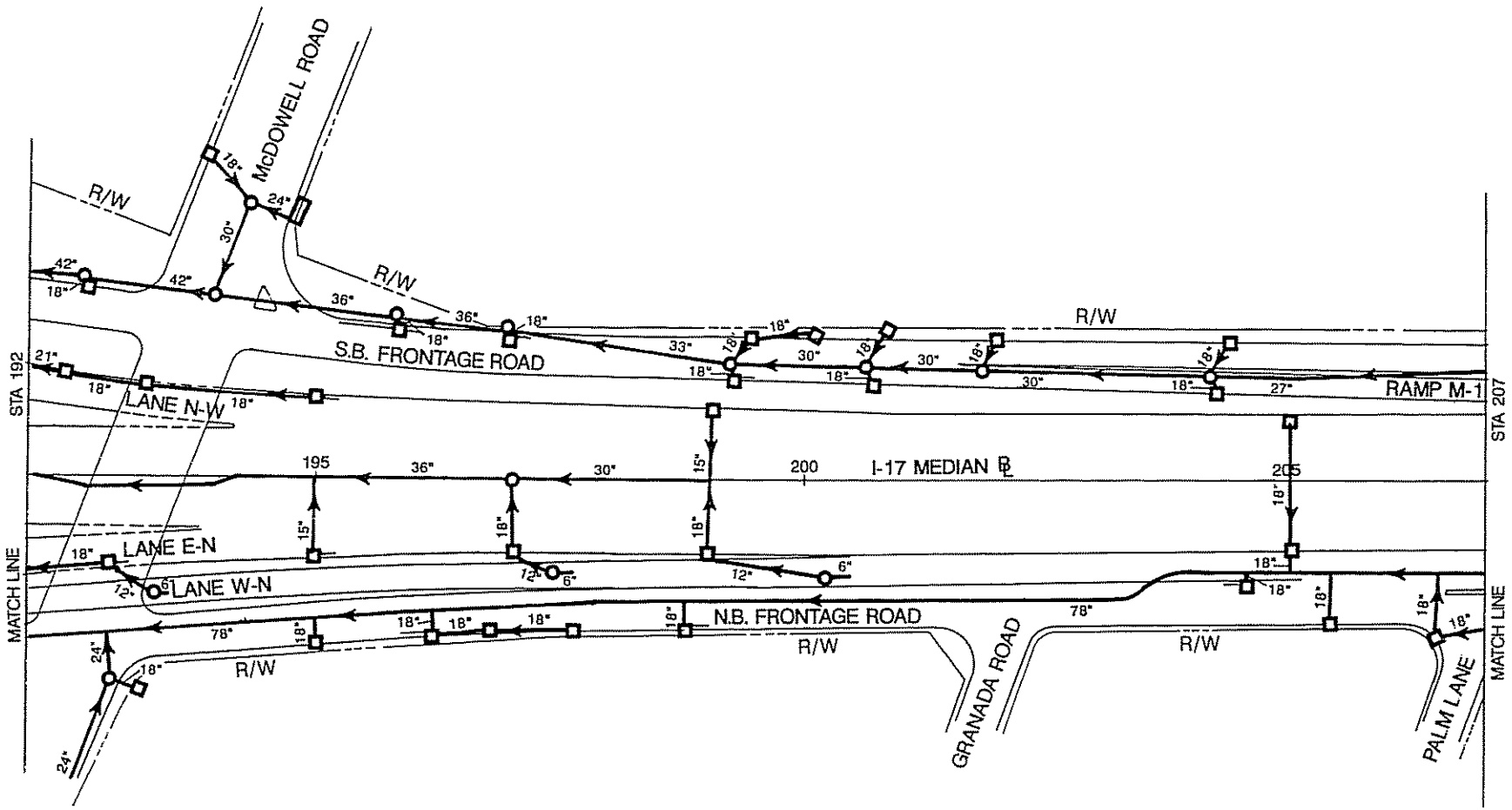
I-17 STA 183 TO STA 192

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


EHRENBERG PHOENIX HIGHWAY
PHOENIX CASA GRANDE HIGHWAY
S.P.R.R. TO THOMAS ROAD
MARICOPA COUNTY
Cst. ℄ S.B. Frt. Rd.
Sta. 20+81.2
Black Canyon
Median
Sta. 23+50.8
Cst. ℄ N.B. Frt. Rd.
Canyon Interceptor
Storm Drain
MATCH
MATCH
FRONTAGE ROADS GRADING AND DRAINAGE
N.B. Sta. 495+75 To Sta. 508+91
S.B. Sta. 291+18 To Sta. 292+25

7 | 1-10- | PE | OF



NTS

I-17 STA 192 TO STA 207

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

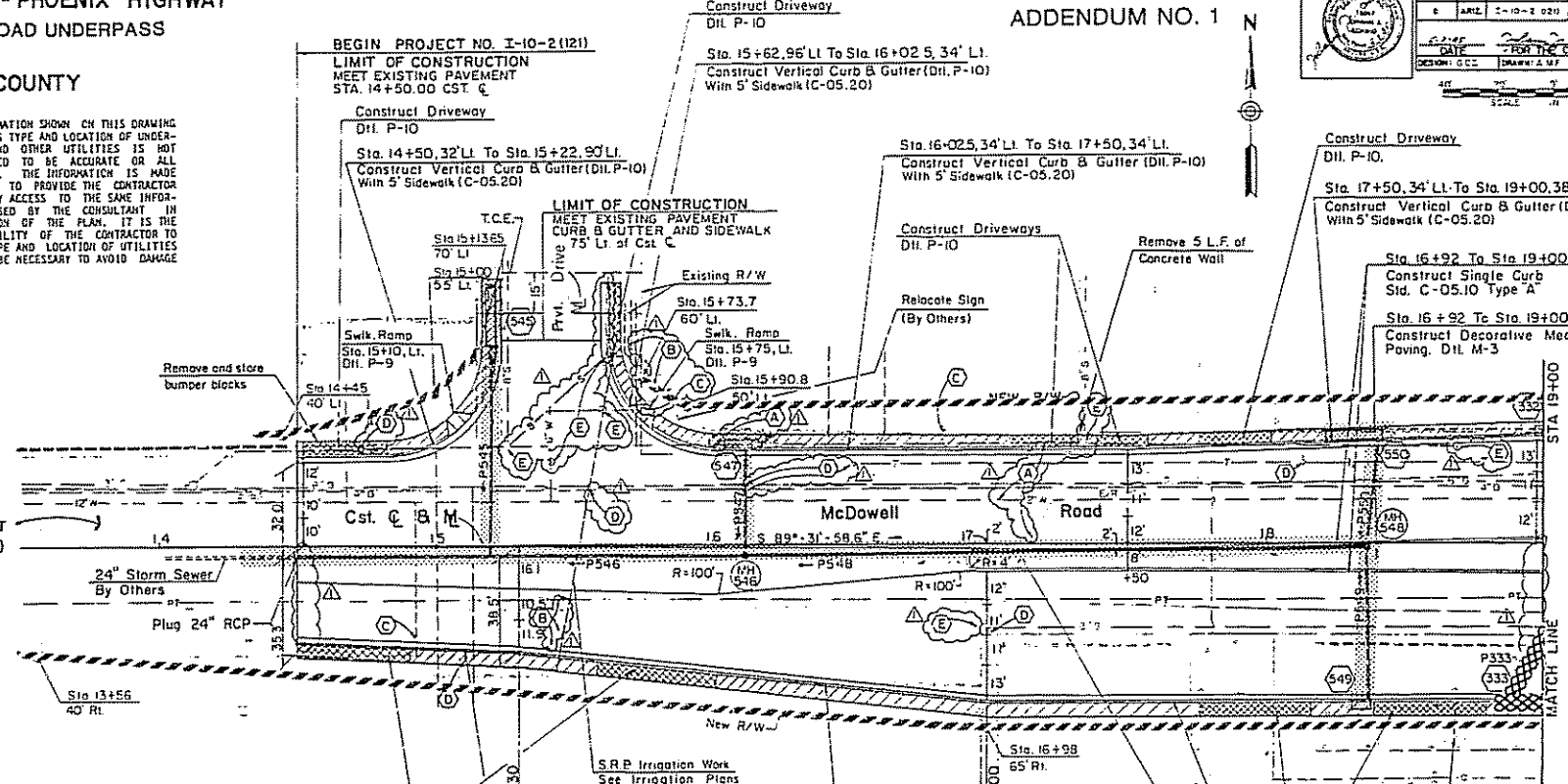
EHRENBERG - PHOENIX HIGHWAY
McDOWELL ROAD UNDERPASS
RAMP N-W
MARICOPA COUNTY

TO ACCOMPANY
ADDENDUM NO. 1

FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL NO. SHEETS	AS BUILT
9	ARIZ	I-10-2 020	37298		

DATE — FOR THE CONSULTING ENGINEER
DESIGN: G.C.C. DRAWN: A.M.F. CHECKED: P.H.G.

THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT REPRESENTED TO BE ACCURATE OR ALL INCLUSIVE. THE INFORMATION IS MADE AVAILABLE TO PROVIDE THE CONTRACTOR WITH READY ACCESS TO THE SAME INFORMATION USED BY THE CONSULTANT IN PREPARATION OF THE PLAN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.



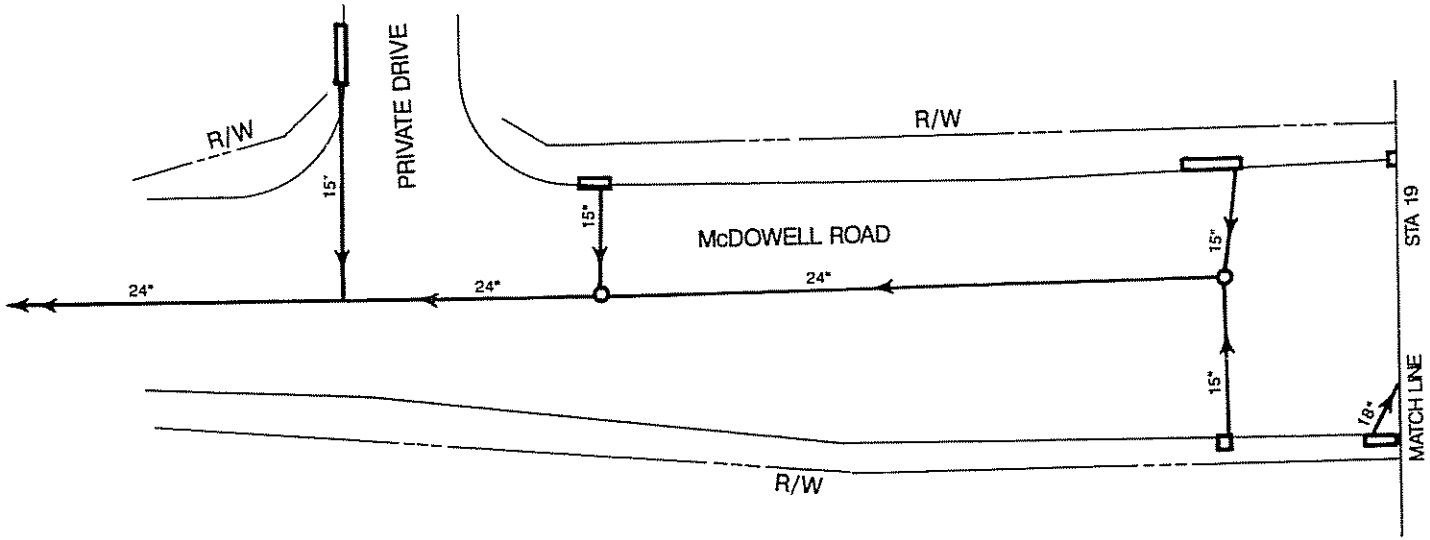
DRIVEWAY LOCATIONS		
℄ Of Drive	Width	Offset
14+70	40'	36.10' Rt.
15+79	40'	43.83' Rt.
17+96	40'	57.00' Rt.
18+59	40'	57.00 Rt.
14+68	30'	32.00' Lt.
15+62	27'	82.00' Lt.
17+20	24'	34.00' Lt.
17+48	18'	34.00' Lt.
17+89	26'	35.04' Lt.

UTILITY LEGEND
- UNAFFECTED
- ABANDON
- RELOCATE
- ADJUSTMENT OR RELOCATION BY UTILITY COMPANY
- ADJUST TO GRADE
- WATER LINE
- SEWER LINE
- GAS LINE
- STORM DRAIN
- BURIED TELEPHONE
- PETROLEUM LINE
- WATER METER
- MANHOLE
- FIRE HYDRANT
- VALVE

NOTE: FOR ADDITIONAL GEOMETRY SEE STAKING PLANS.

REDUCED SIZE DO NOT SCALE

PAVING PLAN
MC DOWELL ROAD
STA. 14+50 to STA. 19+00



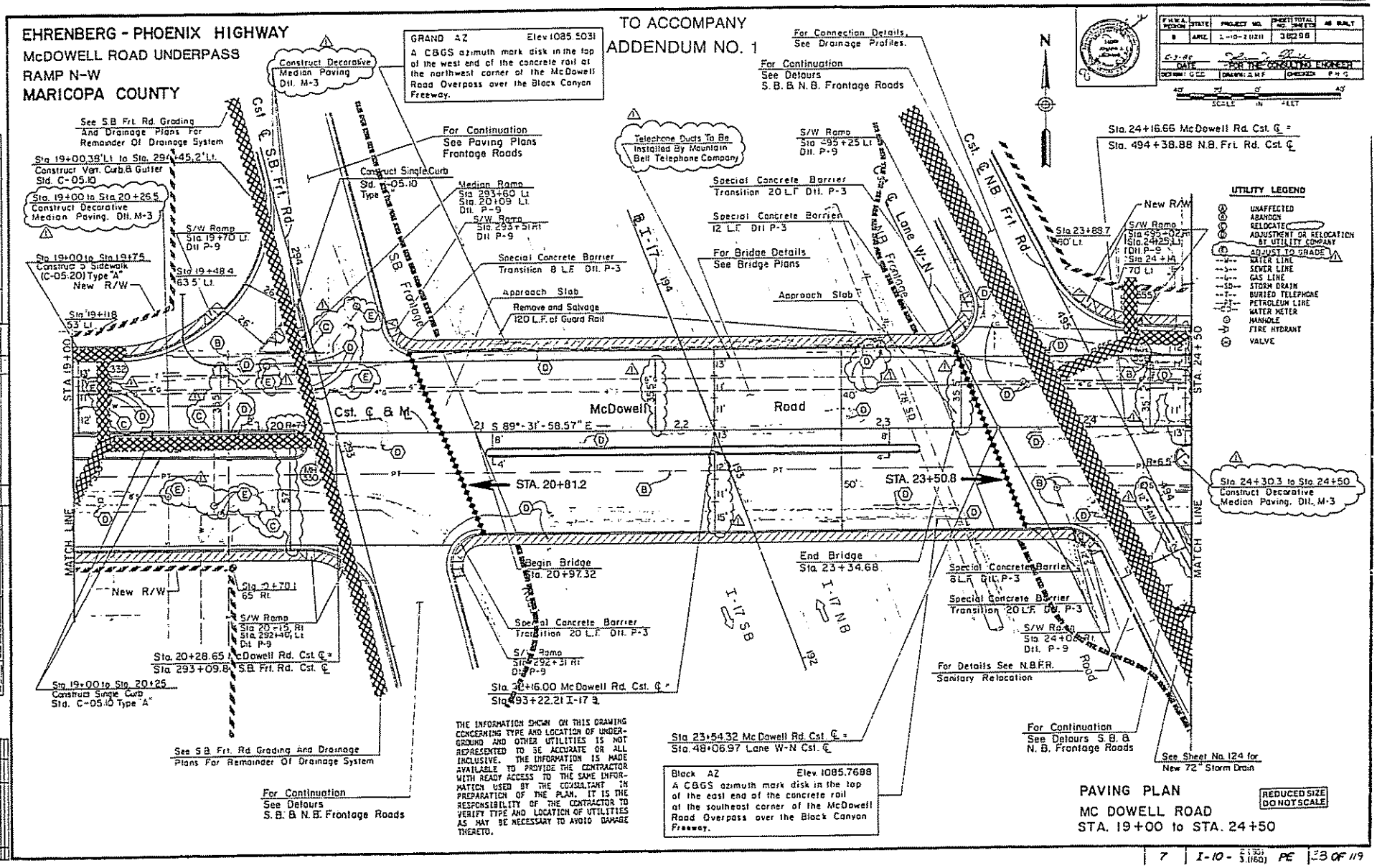
NTS

MCDOWELL RD STA 14+50 TO STA 19
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

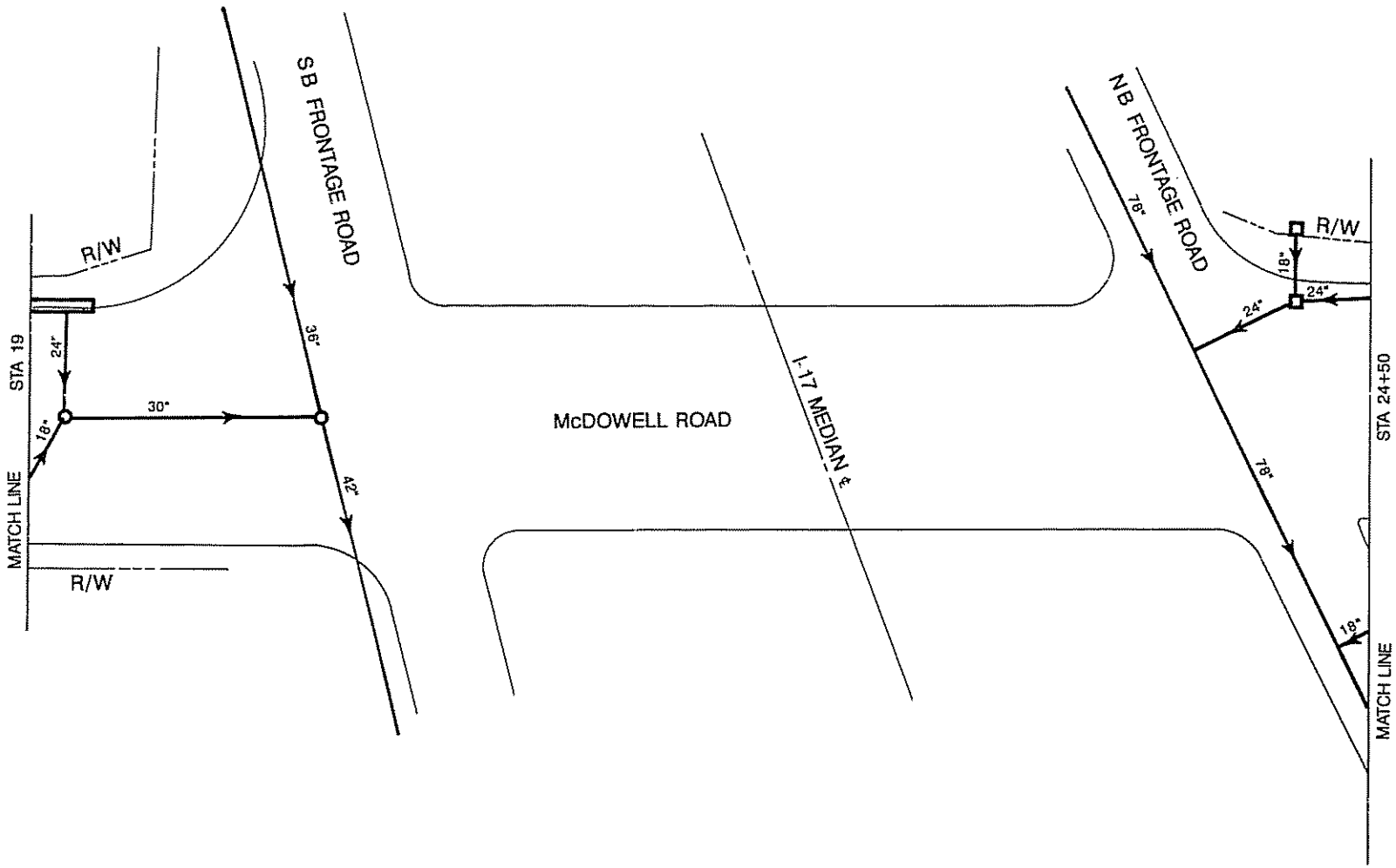
HNTB

EHRENBERG - PHOENIX HIGHWAY
McDOWELL ROAD UNDERPASS
RAMP N-W
MARICOPA COUNTY

TO ACCOMPANY
ADDENDUM NO. 1



PAVING PLAN
MC DOWELL ROAD
STA. 19+00 to STA. 24+50



NTS

MCDOWELL RD STA 19 TO STA 24+50

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

EHRENBERG - PHOENIX HIGHWAY

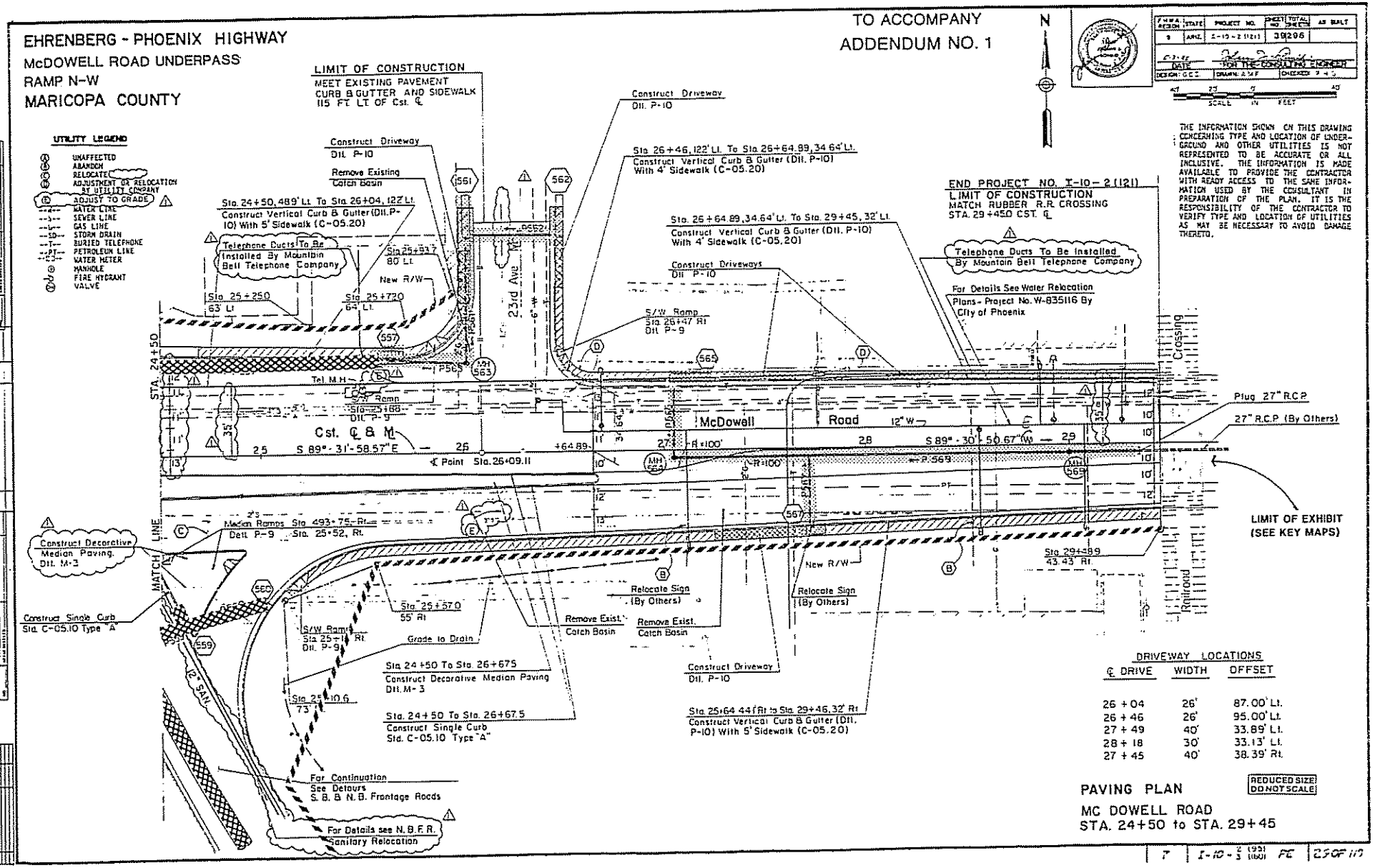
McDOWELL ROAD UNDERPASS

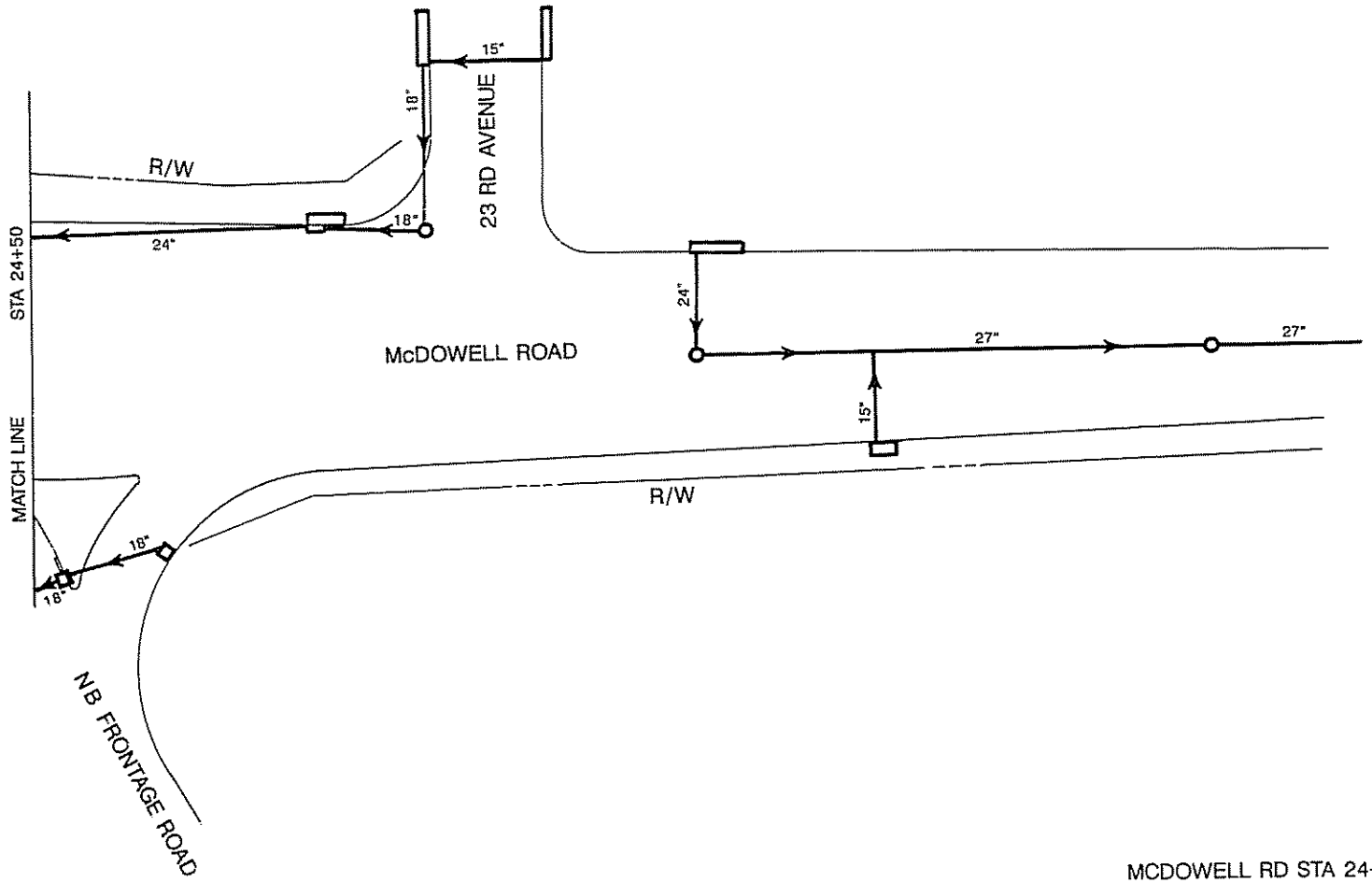
RAMP N-W

MARICOPA COUNTY

TO ACCOMPANY

ADDENDUM NO. 1



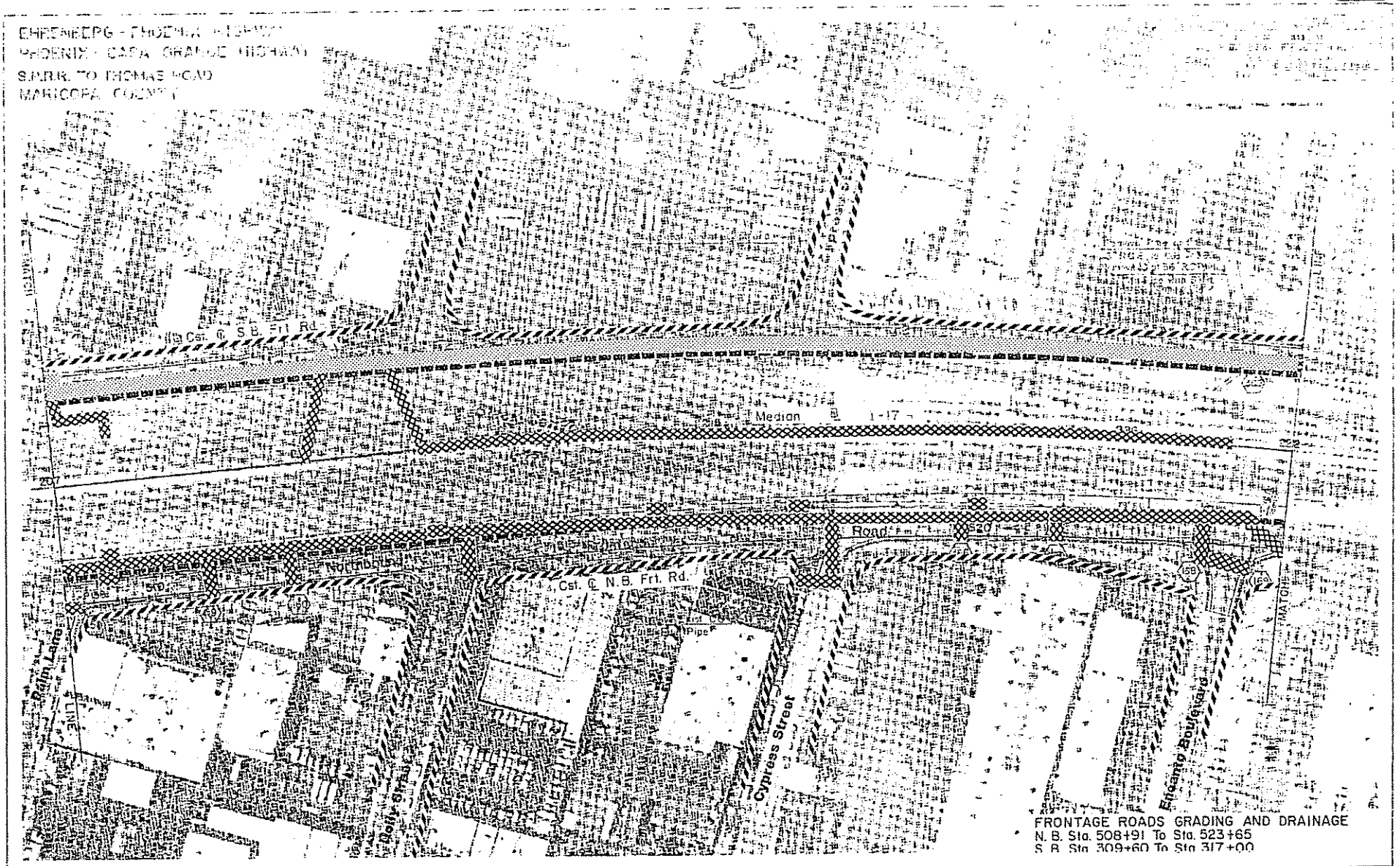


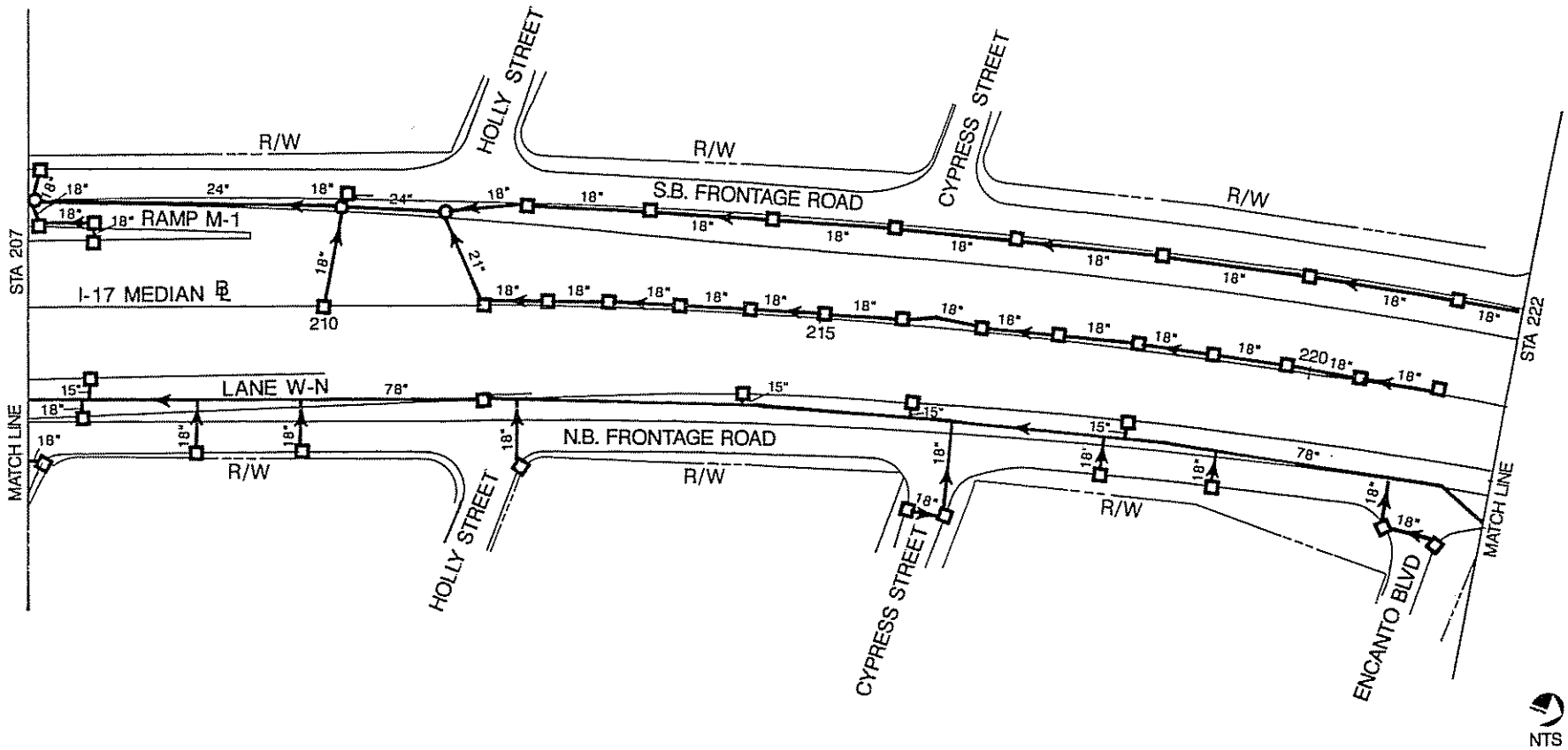
NTS

MCDOWELL RD STA 24+50 TO STA 29+45

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

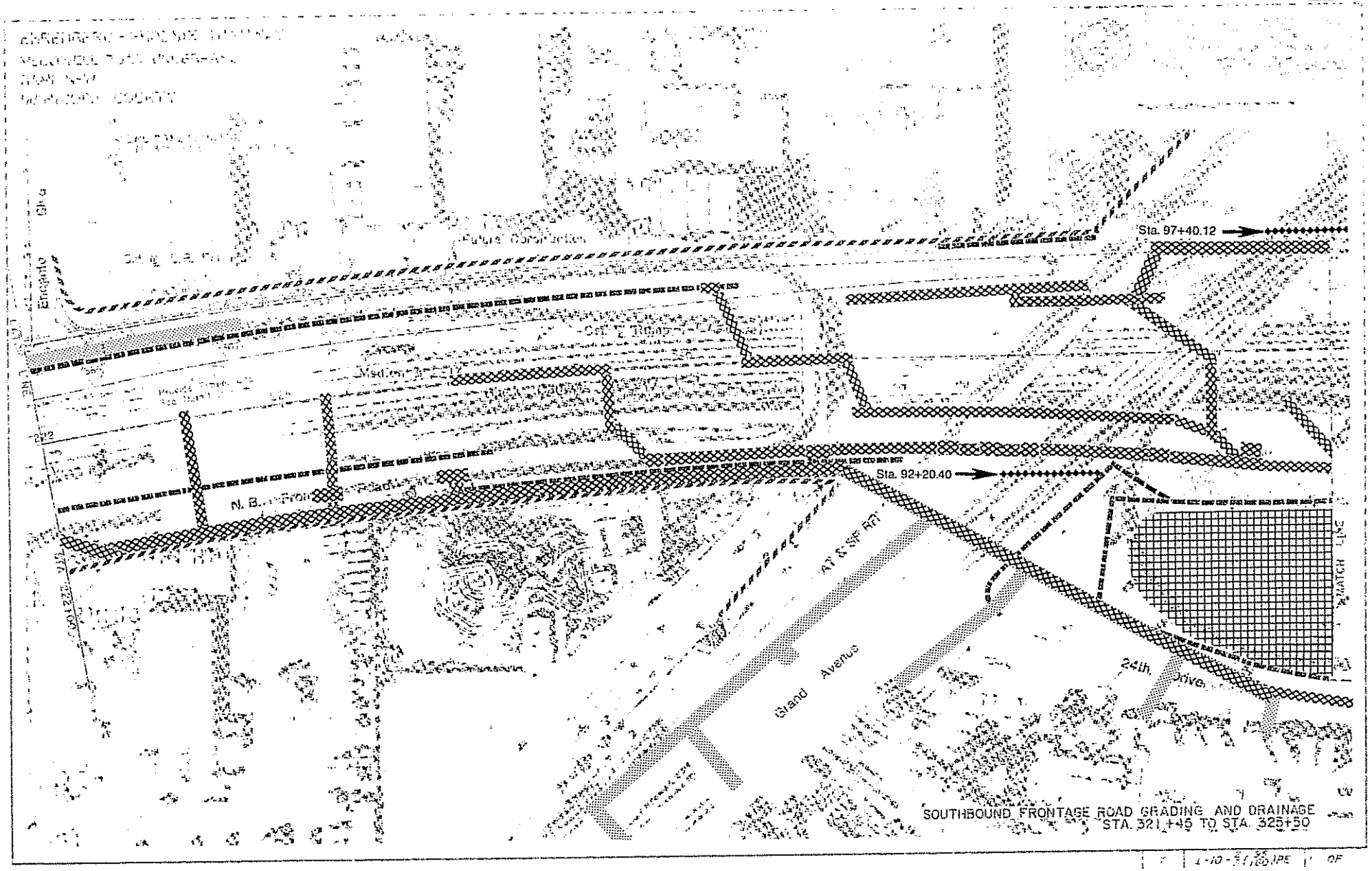

EHRENBERG - PHOENIX HIGHWAY
PHOENIX - CASA GRANDE HIGHWAY
S.P.R.R. TO THOMAS ROAD
MARICOPA COUNTY
Cst. ℄ S.B. Frt. Rd.
Median
Road
Cst. ℄ N.B. Frt. Rd.
Pipe
Cypress Street
Encanto Boulevard
Palm Lane
MATCH LINE
FRONTAGE ROADS GRADING AND DRAINAGE
N. B. Sta. 508+91 To Sta. 523+65
S. B. Sta. 309+60 To Sta. 317+00

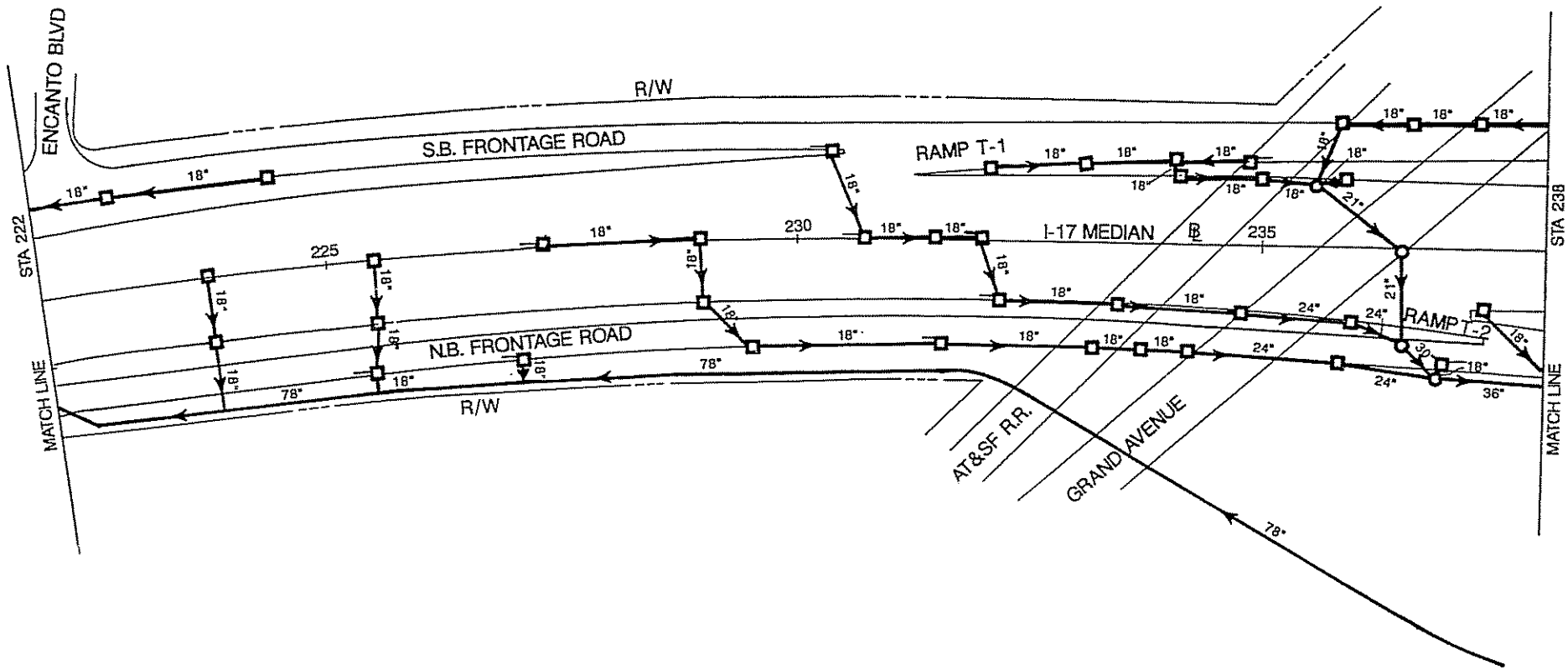


I-17 STA 207 TO STA 222

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB


Sta. 97+40.12
Sta. 92+20.40
Grand Avenue
24th Drive
MATCH LINE
SOUTHBOUND FRONTAGE ROAD GRADING AND DRAINAGE
STA. 321+45 TO STA. 325+50

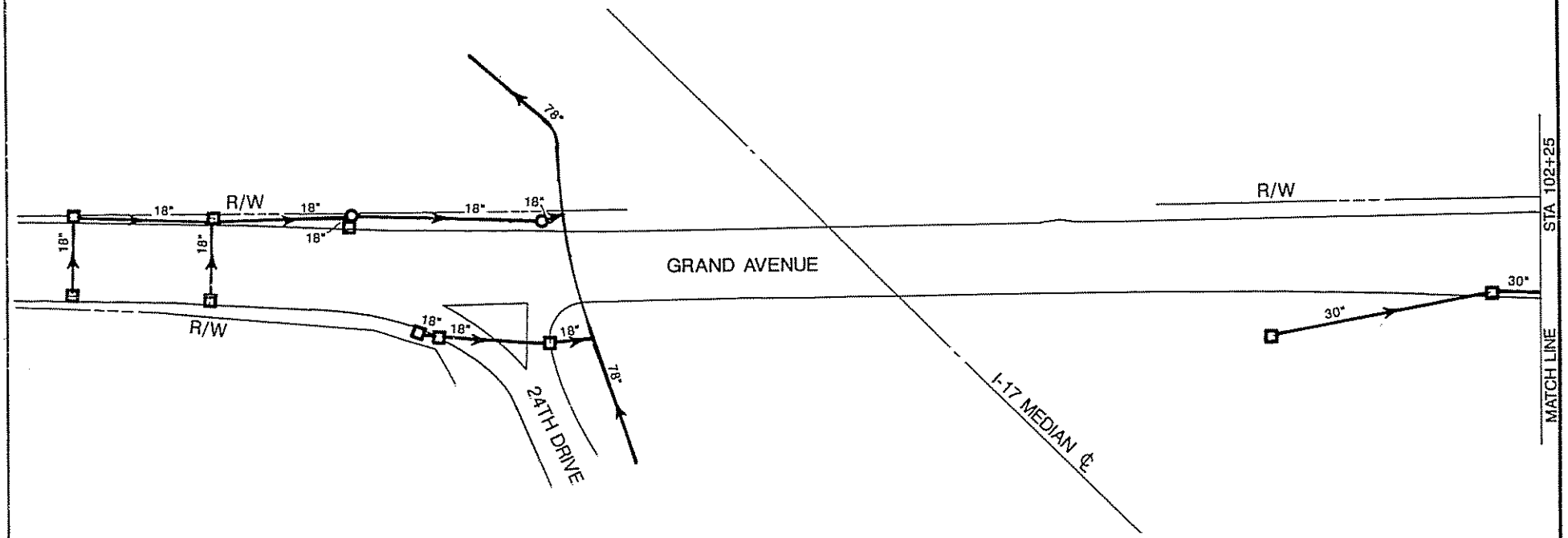


NTS

I-17 STA 222 TO STA 238

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB



NTS

GRAND AVENUE STA 85+50 TO STA 102+25

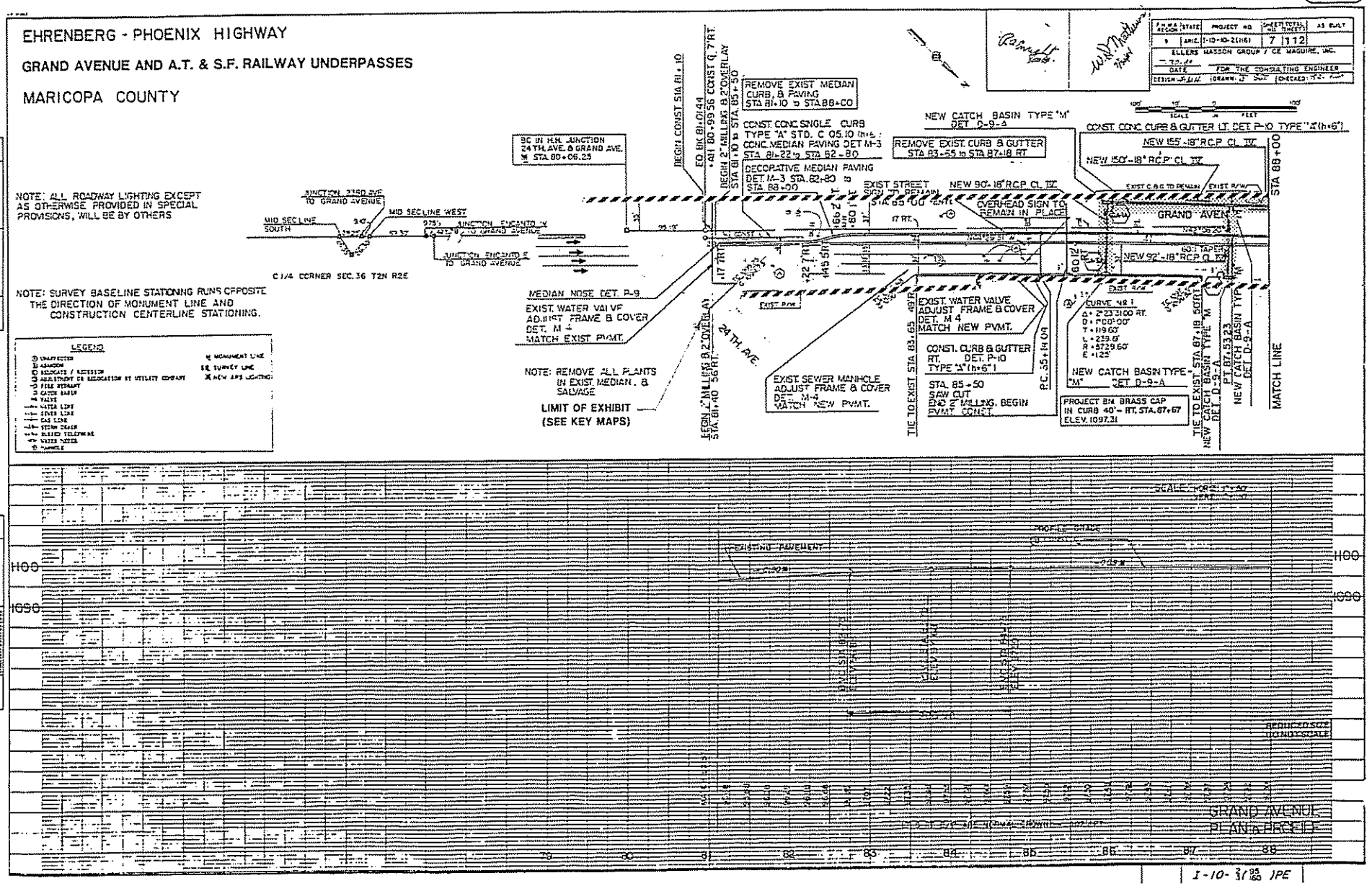
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

EHRENBERG - PHOENIX HIGHWAY

GRAND AVENUE AND A.T. & S.F. RAILWAY UNDERPASSES

MARICOPA COUNTY



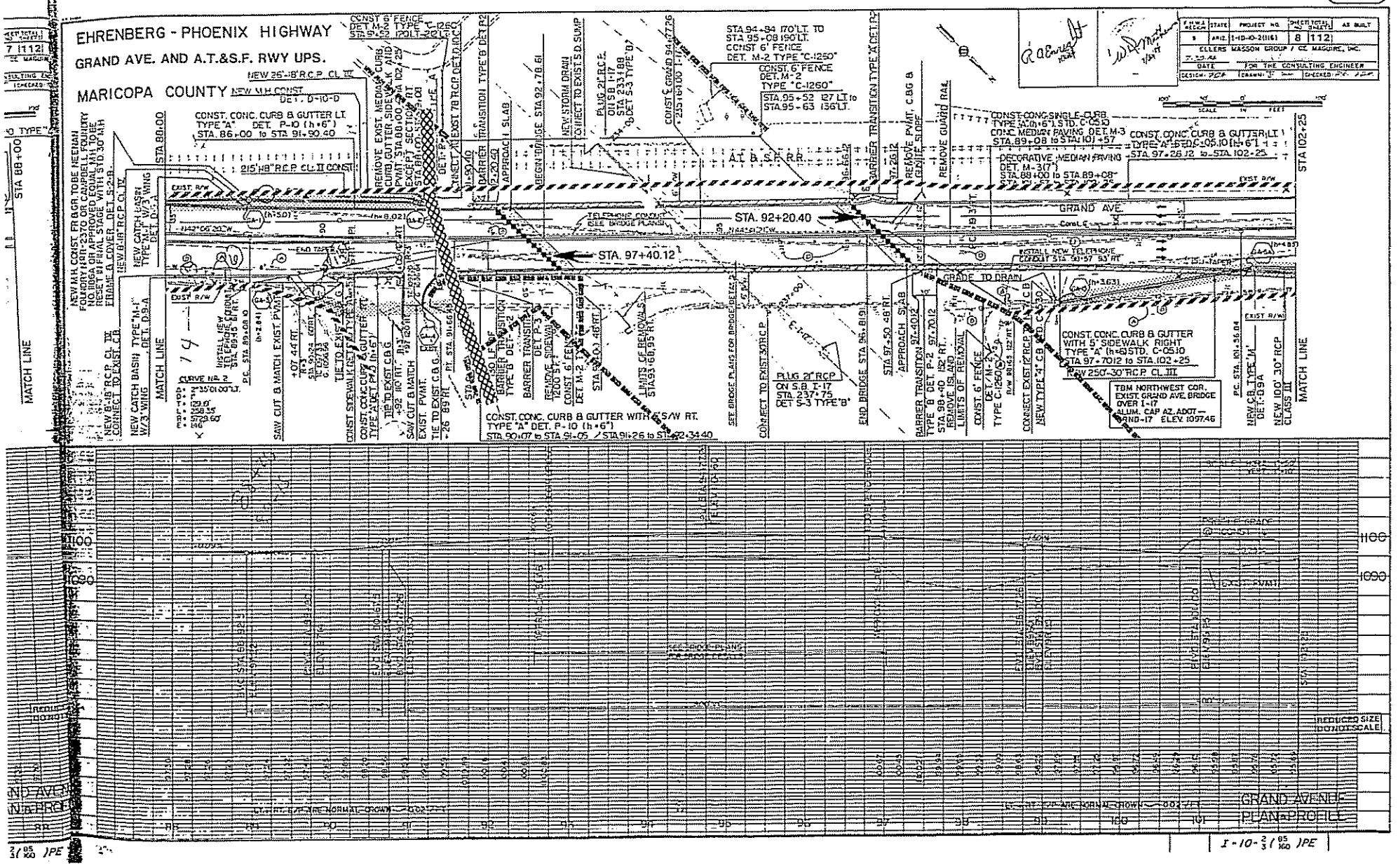
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-10-2(116)	7	112	

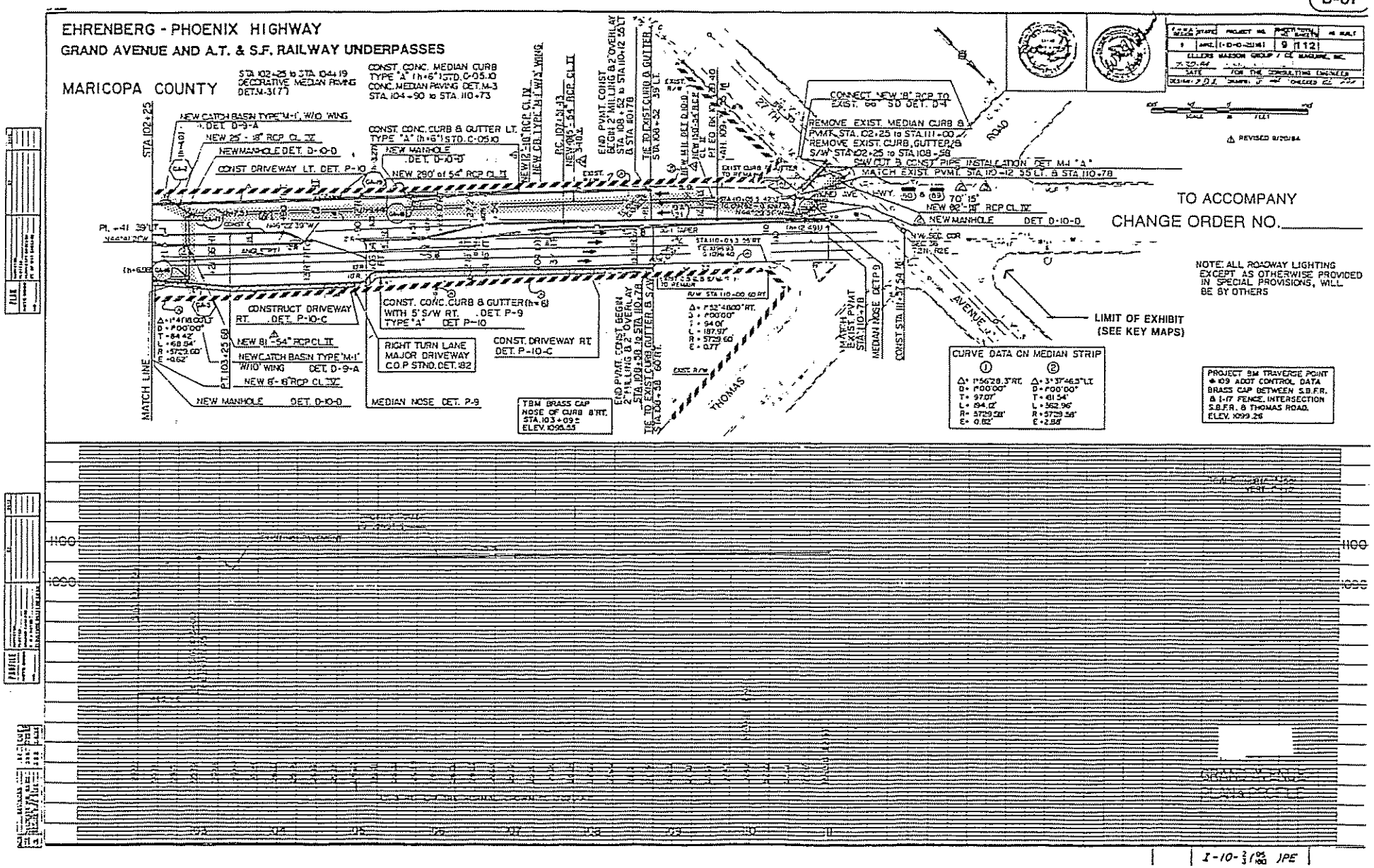
ELLERS MASSON GROUP / CE MAGUIRE, INC.

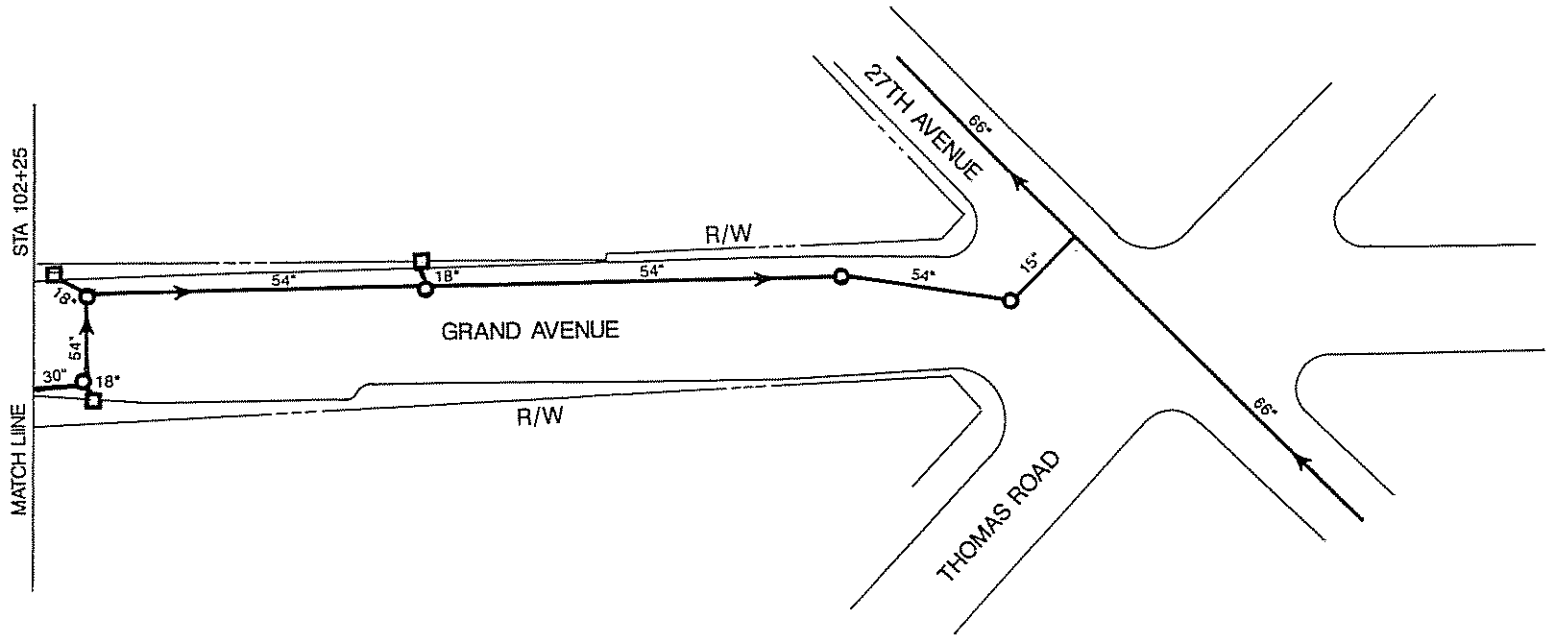
DATE — FOR THE CONSULTING ENGINEER

DESIGN — DRAWN — CHECKED

I-10-3(95/160)PE


EHRENBERG - PHOENIX HIGHWAY
GRAND AVE. AND A.T.&S.F. RWY UPS.
MARICOPA COUNTY
STA. 92+20.40
STA. 97+40.12
GRAND AVE.
A.T. & S.F. R.R.
MATCH LINE
STA 88+00
STA 102+25
CONST. CONC. CURB & GUTTER LT. TYPE "A" DET. P-10 (h=6") STA. 86+00 to STA. 91+90.40
CONST. CONC. CURB & GUTTER WITH 5' SIDEWALK RIGHT TYPE "A" (h=6) STD. C-0510 STA. 97+70.12 to STA. 102+25
CONST. CONC. CURB & GUTTER WITH 5' S/W RT. TYPE "A" DET. P-10 (h=6") STA. 90+07 to STA. 91+05 / STA. 91+26 to STA. 92+34.40
TBM NORTHWEST COR. EXIST. GRAND AVE. BRIDGE OVER I-17 ALUM. CAP AZ. ADOT — GRND-17 ELEV. 1097.46
ELLERS MASSON GROUP / CE MAGUIRE, INC.
FOR THE CONSULTING ENGINEER
GRAND AVENUE PLAN & PROFILE
REDUCED SIZE DO NOT SCALE
I-10-2/3 (85/100) PE


EHRENBERG - PHOENIX HIGHWAY
GRAND AVENUE AND A.T. & S.F. RAILWAY UNDERPASSES
MARICOPA COUNTY
STA 102+25 to STA 104+19 DECORATIVE MEDIAN PAVING DET.M-3(7)
CONST. CONC. MEDIAN CURB TYPE "A" (h=6") STD. C-05.10 CONC. MEDIAN PAVING DET. M-3 STA. 104+90 to STA. 110+73
NEW CATCH BASIN TYPE "M-1" W/10' WING DET. D-9-A
NEW 25' - 18" RCP CL. IV
NEW MANHOLE DET. D-10-D
CONST DRIVEWAY LT. DET. P-10
CONST. CONC. CURB & GUTTER LT. TYPE "A" (h=6") STD. C-05.10
NEW MANHOLE DET. D-10-D
NEW 290' of 54" RCP CL. II
END PVMT. CONST BEGIN 2" MILLING & 2" OVERLAY STA 108+52 to STA 110+12 55 LT & STA 110+78
TIE TO EXIST CURB & GUTTER STA 108+52 39' LT.
CONNECT NEW 18" RCP TO EXIST. 66" SD DET. D-4
REMOVE EXIST. MEDIAN CURB & PVMT. STA. 102+25 to STA. 111+00
REMOVE EXIST. CURB, GUTTER & S/W STA 102+25 to STA 108+58
SAW CUT & CONST PIPE INSTALLATION DET. M-1 "A"
MATCH EXIST. PVMT. STA. 110+12 55 LT. & STA. 110+78
NEW 82'-18" RCP CL. IV
NEW MANHOLE DET. D-10-D
TO ACCOMPANY
CHANGE ORDER NO.
NOTE: ALL ROADWAY LIGHTING EXCEPT AS OTHERWISE PROVIDED IN SPECIAL PROVISIONS, WILL BE BY OTHERS
LIMIT OF EXHIBIT (SEE KEY MAPS)
CONSTRUCT DRIVEWAY RT. DET. P-10-C
NEW 81'-54" RCP CL. II
NEW CATCH BASIN TYPE "M-1" W/10' WING DET. D-9-A
NEW 8'-18" RCP CL. IV
NEW MANHOLE DET. D-10-D
CONST. CONC. CURB & GUTTER (h=6) WITH 5' S/W RT. DET. P-9 TYPE "A" DET. P-10
RIGHT TURN LANE MAJOR DRIVEWAY C.O.P. STND. DET. 182
CONST. DRIVEWAY RT. DET. P-10-C
MEDIAN NOSE DET. P-9
TBM BRASS CAP NOSE OF CURB 8' RT. STA. 103+09± ELEV. 1095.55
END PVMT. CONST BEGIN 2" MILLING & 2" OVERLAY STA 108+58 to STA 110+78
TIE TO EXIST CURB, GUTTER & S/W STA 108+58 60' RT.
MATCH EXIST PVMT STA. 110+78
MEDIAN NOSE DET. P-9
CONST STA 111+37 54' LT.
MATCH LINE
STA 102+25
P.T. 103+25.68
THOMAS
AVENUE
ROAD
CURVE DATA ON MEDIAN STRIP
① Δ = 1°56'28.3" RT. D = 1°00'00" T = 97.07' L = 194.12' R = 5729.58' E = 0.82'
② Δ = 3°37'46.5" LT. D = 1°00'00" T = 181.54' L = 362.96' R = 5729.58' E = 2.88'
PROJECT BM TRAVERSE POINT #109 ADOT CONTROL DATA BRASS CAP BETWEEN S.B.F.R. & I-17 FENCE, INTERSECTION S.B.F.R. & THOMAS ROAD, ELEV. 1099.26
1100
1000
REVISED 9/20/84
I-10-2/3 (95/80) JPE



GRAND AVENUE STA 102+25 TO STA 112

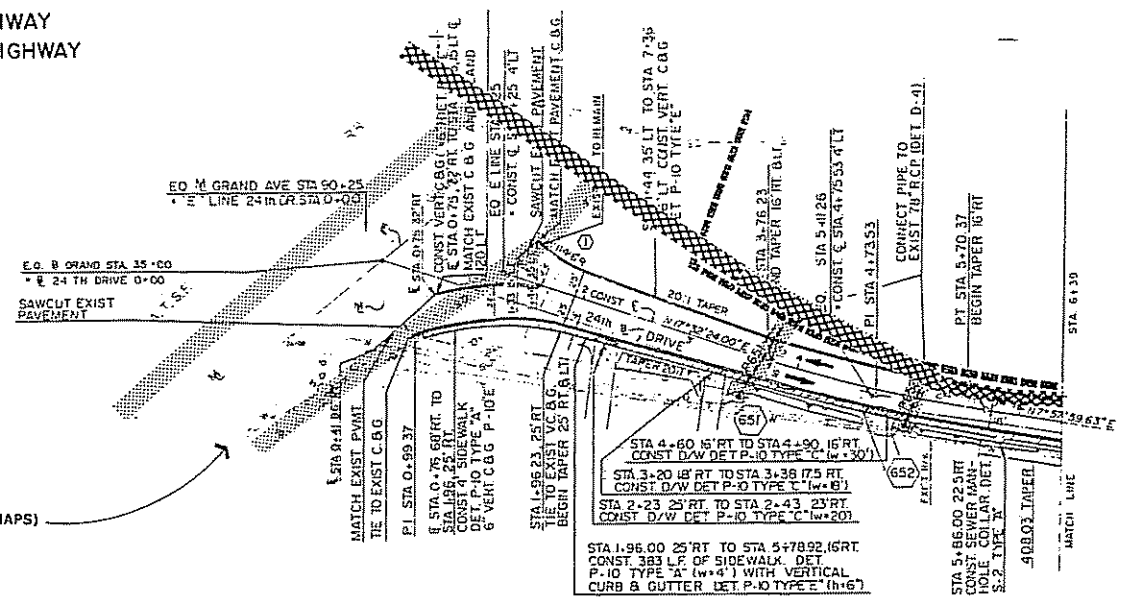
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

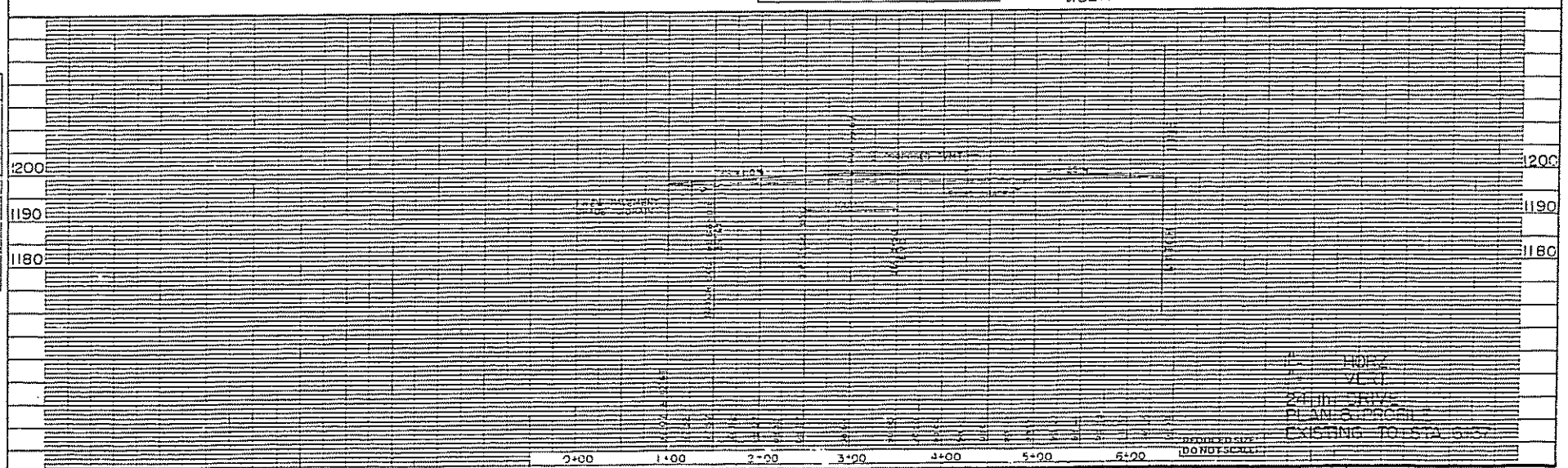
HNTB

EHRENBERG - PHOENIX HIGHWAY
PHOENIX - CASA GRANDE HIGHWAY
S.P.R.R. TO THOMAS ROAD
MARICOPA COUNTY

LOCATION OF RADIUS POINT

STATION & OFFSET	RADIUS
① 1+87.72, 139.28' LT	114.6'



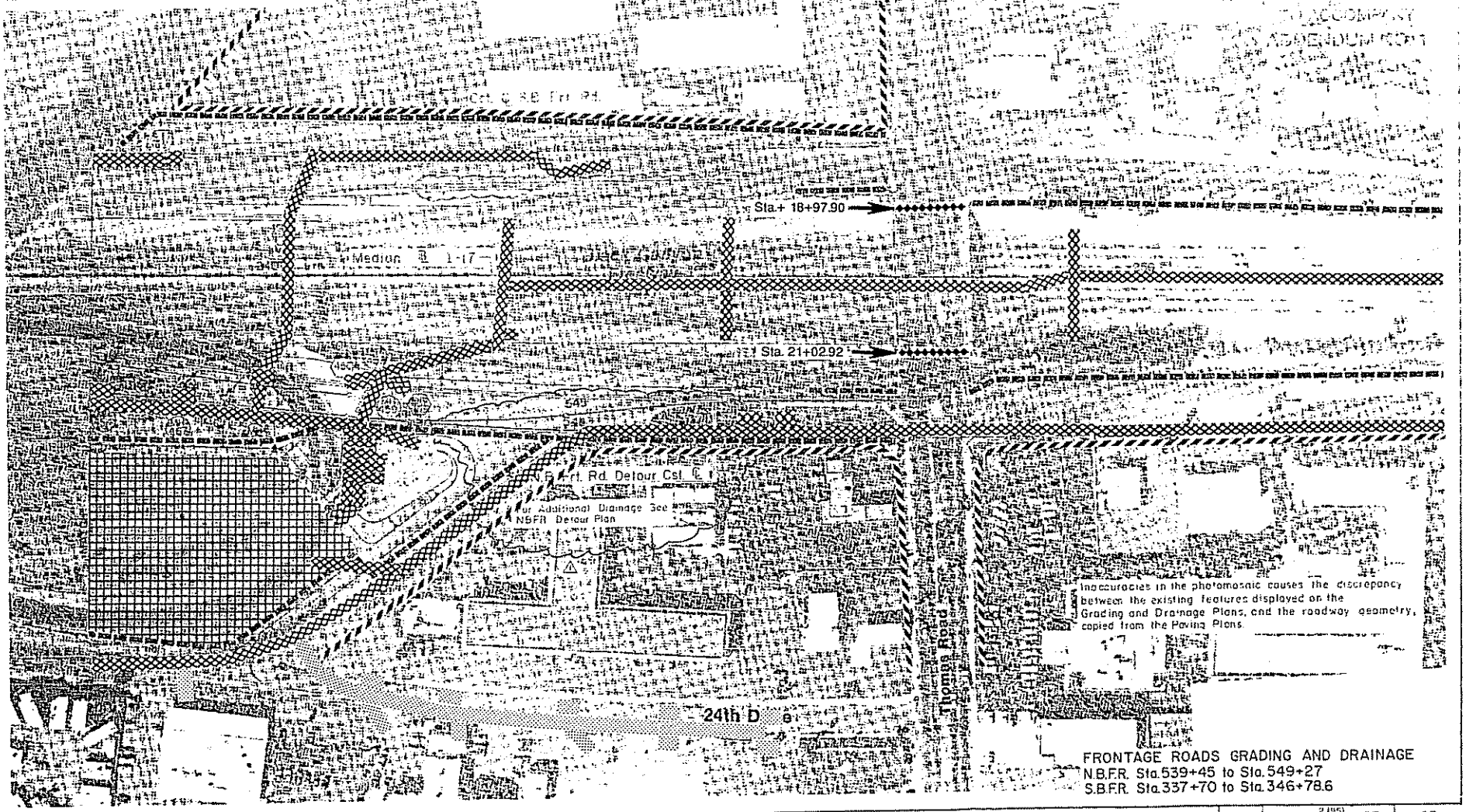


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET TOTAL NO. SHEETS	AS BUILT
9	ARIZ.	2-10-2-130	198	500

ELLERS MASSON GROUP / C.E. MAGUIRE, INC.
DATE FOR THE CONSULTING ENGINEER
DESIGN SIZE DRAWN CHECKED

7 | I-10- 2 (93) 3-(160) PE | 131 OF

EHRENBERG - PHOENIX HIGHWAY
PHOENIX - CASA GRANDE HIGHWAY
S.P.R.R. TO THOMAS ROAD
MARICOPA COUNTY

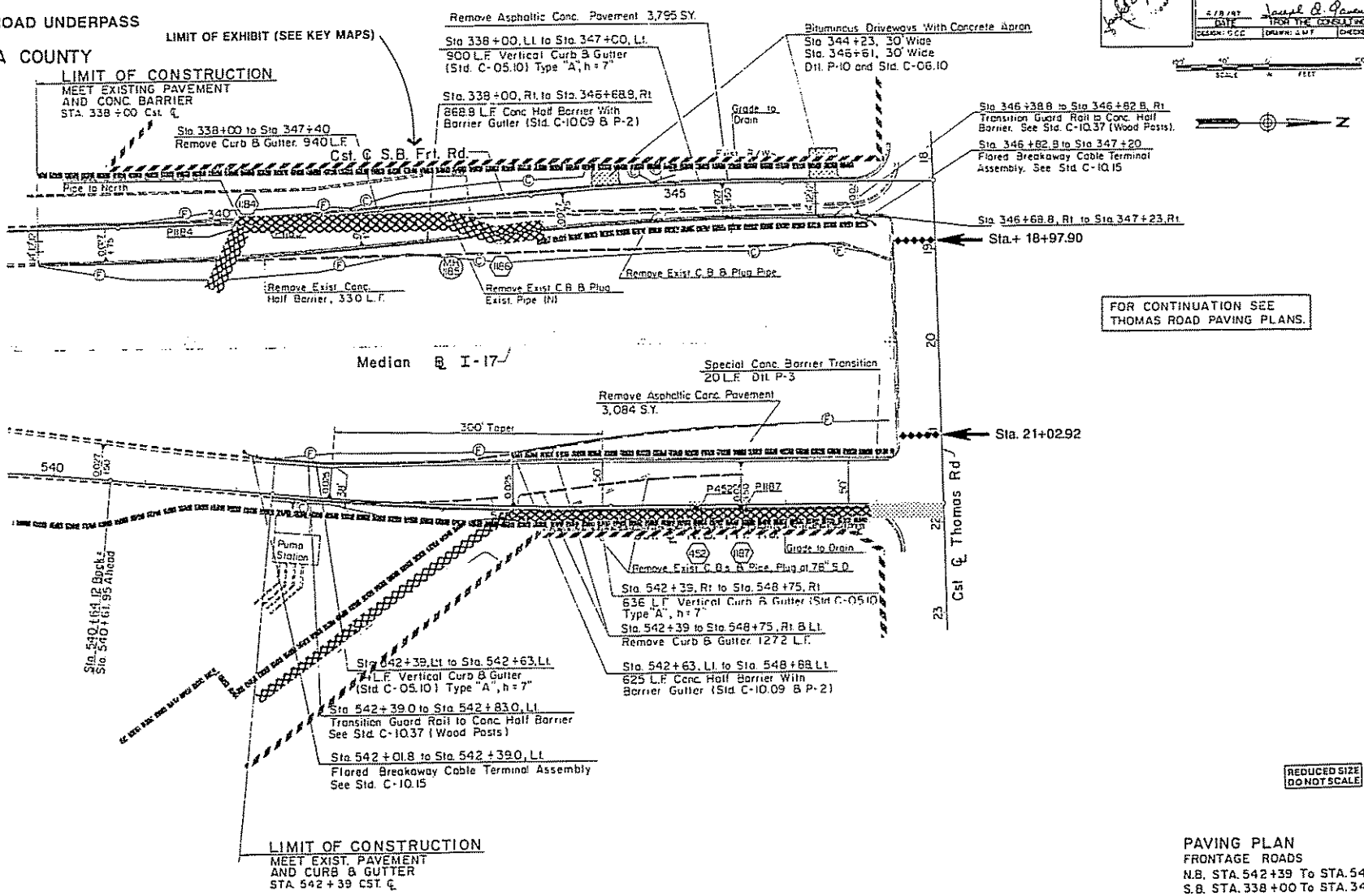


FRONTAGE ROADS GRADING AND DRAINAGE
N.B.F.R. Sta.539+45 to Sta.549+27
S.B.F.R. Sta.337+70 to Sta.346+78.6

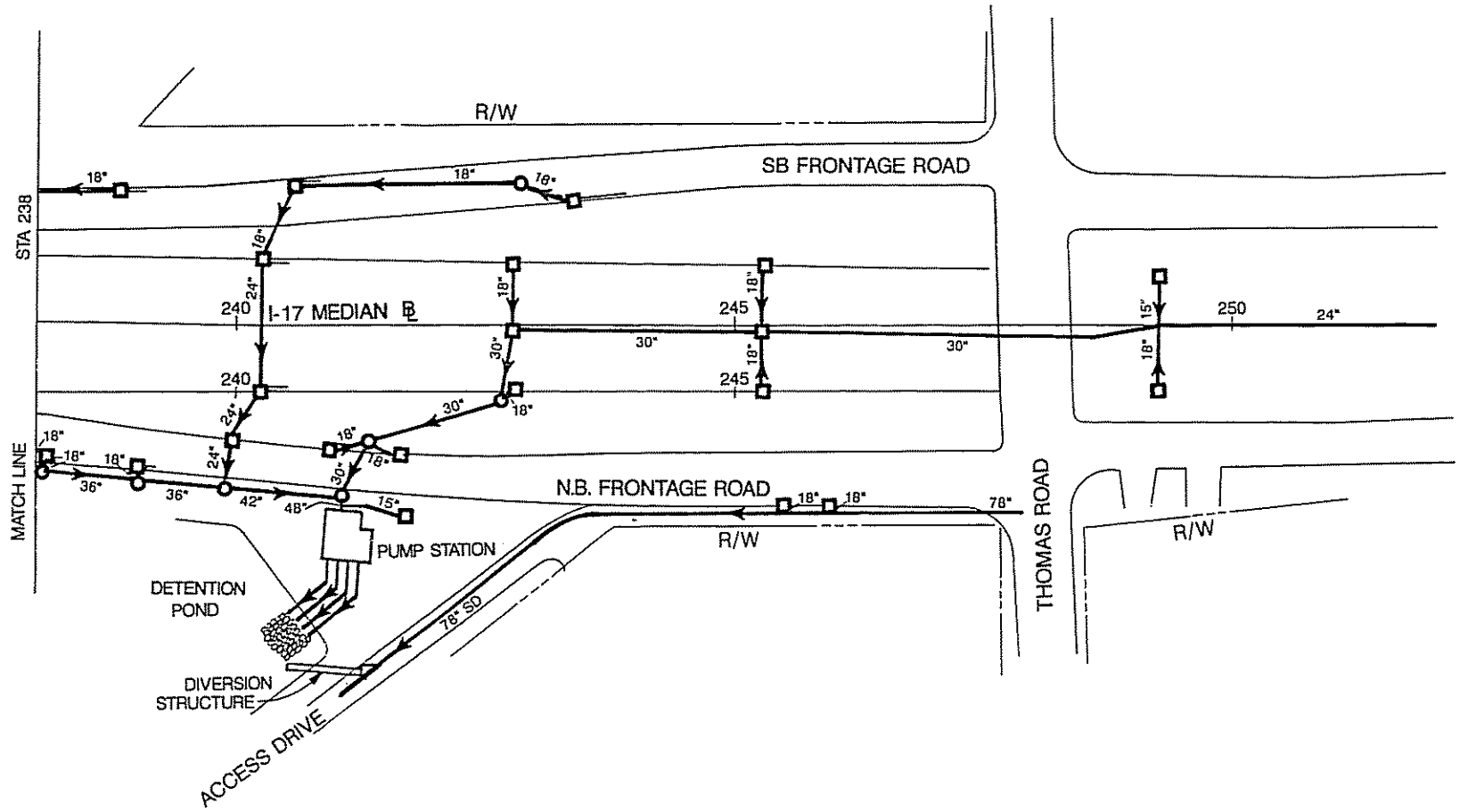
PHOENIX – CORDES JUNCTION

THOMAS ROAD UNDERPASS

MARICOPA COUNTY



PAVING PLAN
FRONTAGE ROADS
N.B. STA. 542 +39 To STA. 548 +75
S.B. STA. 338 +00 To STA. 347 +00

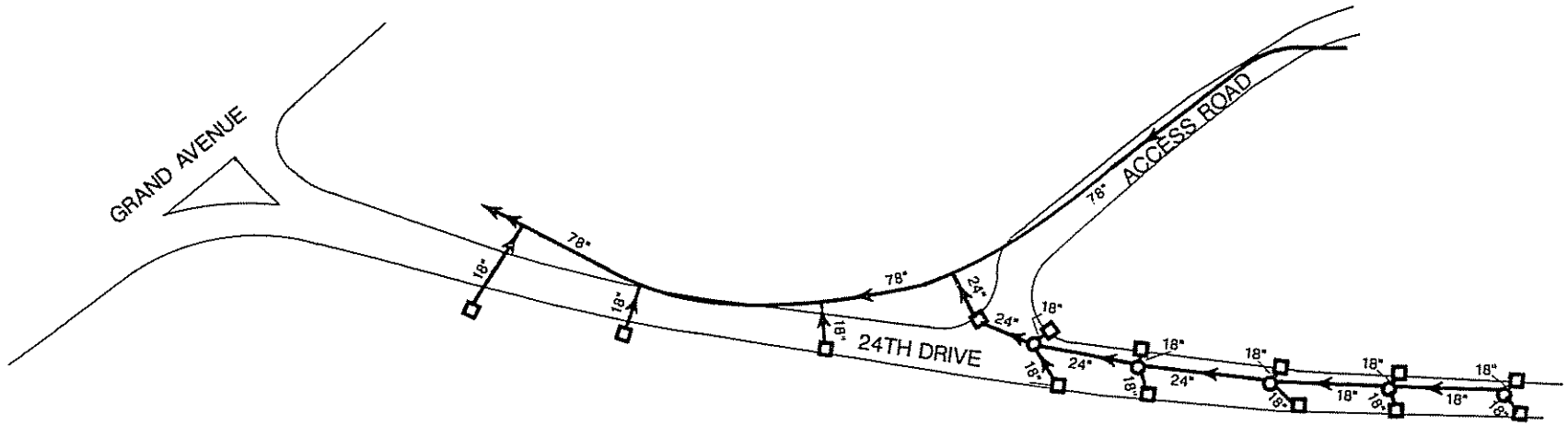


NTS

I-17 STA 238 TO STA 252

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

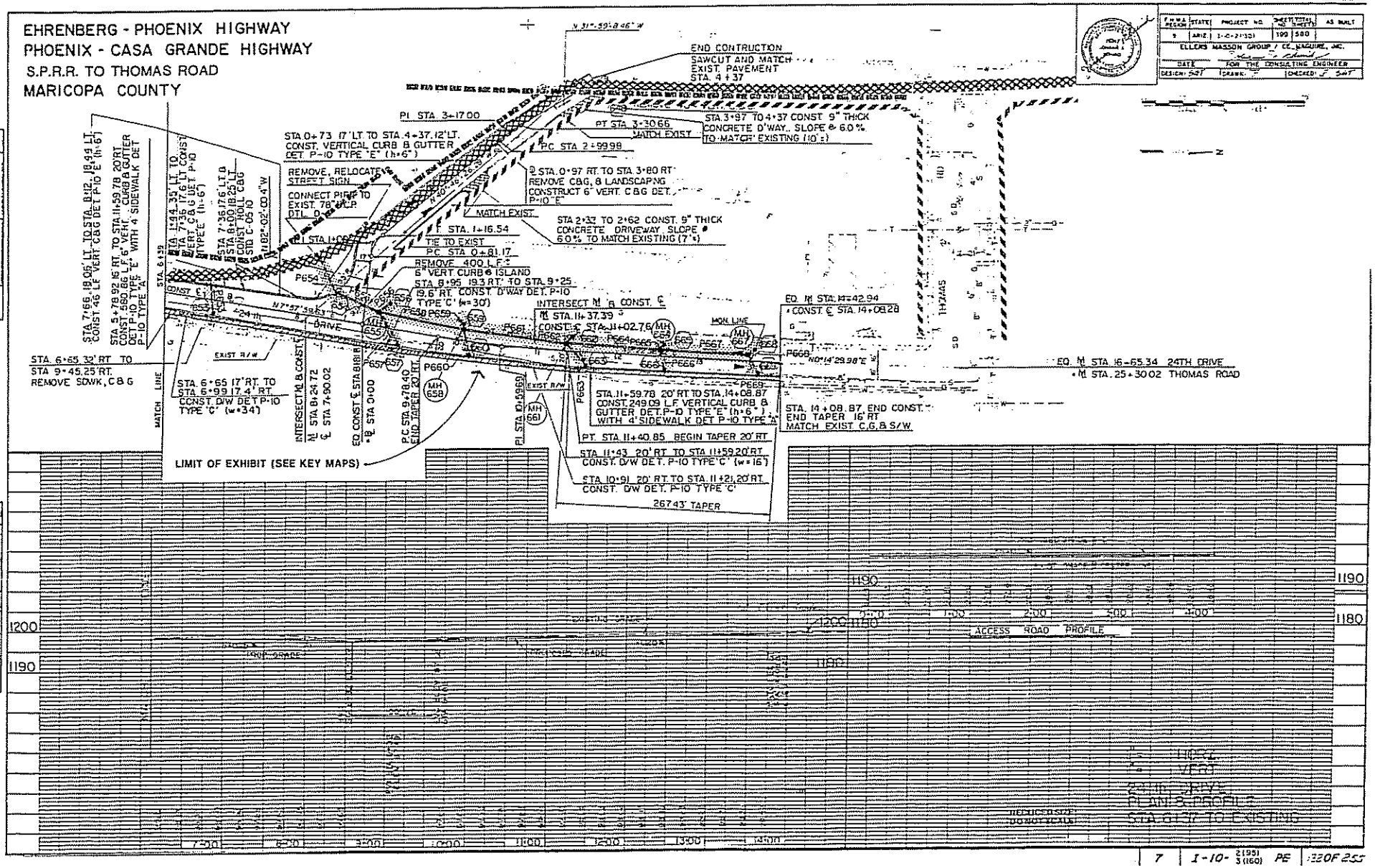


NTS

24TH DRIVE STA 0+75 TO STA 14+00
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

EHRENBERG - PHOENIX HIGHWAY
PHOENIX - CASA GRANDE HIGHWAY
S.P.R.R. TO THOMAS ROAD
MARICOPA COUNTY



FEDERAL REGION	STATE	PROJECT NO.	SHEET TOTAL NO.	SHEET NO.	AS BUILT
9	ARIZ.	I-10-2(195) 3(160)	199	580	

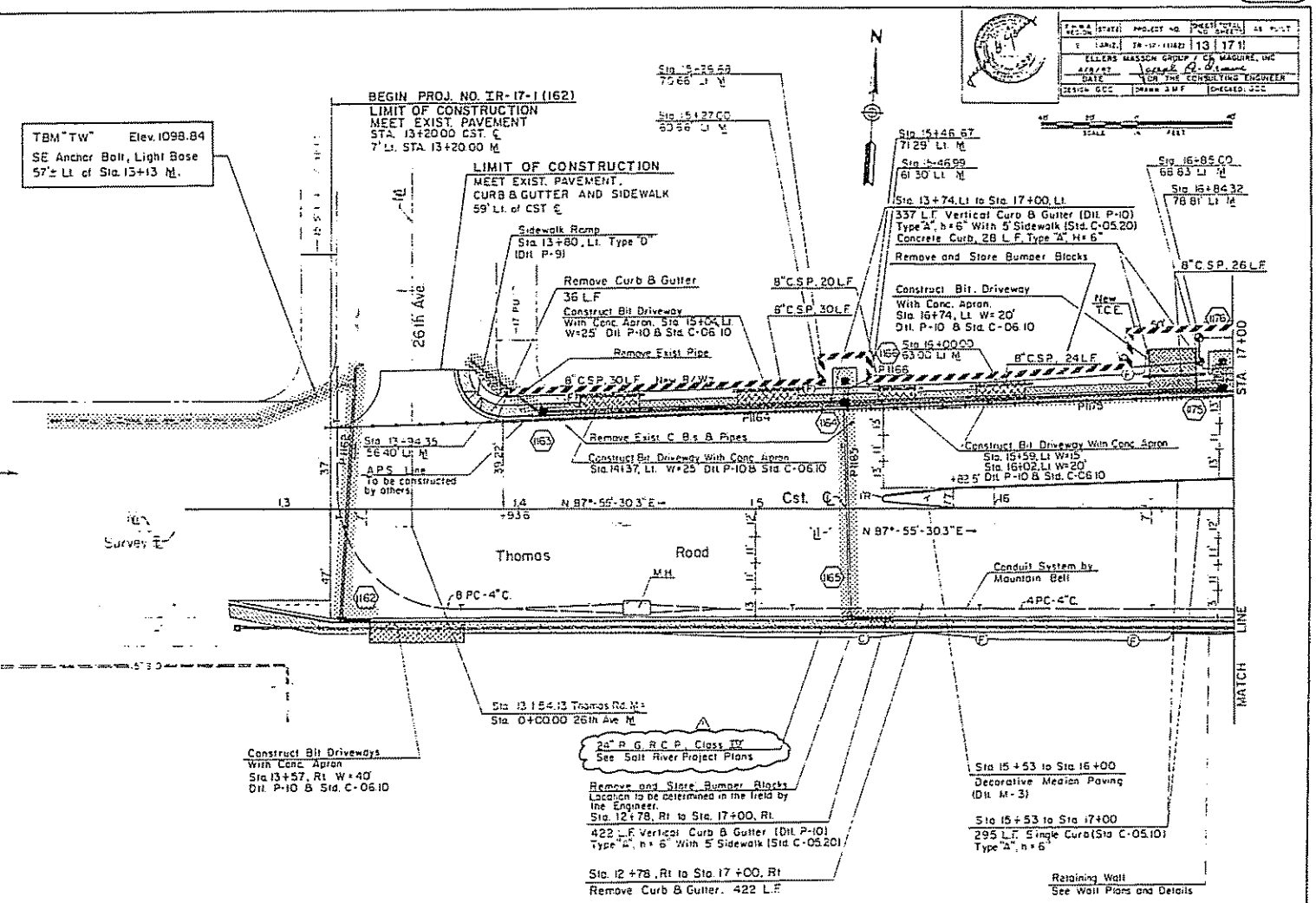
ELLERS MASSON GROUP / CE MAGUIRE, INC.
DATE FOR THE CONSULTING ENGINEER
DESIGN: SWT DRAWN: CHECKED: SWT

PHOENIX - CORDES JUNCTION

THOMAS ROAD UNDERPASS

MARICOPA COUNTY

TO ACCOMPANY
ADDENDUM NO. 1



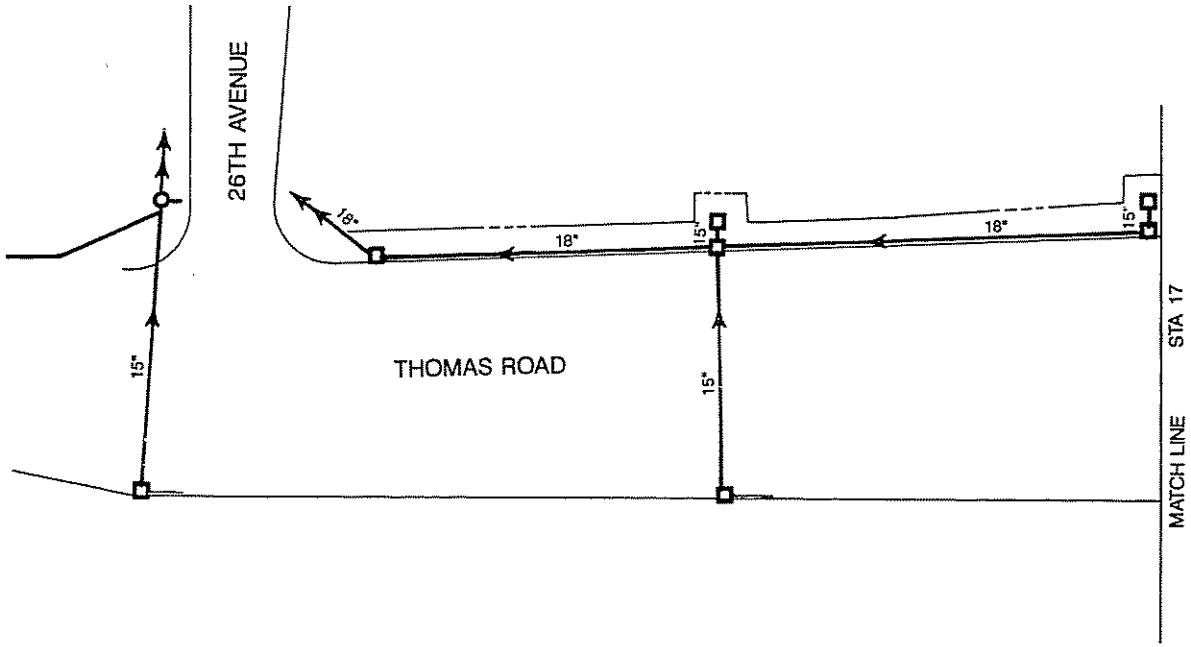
DRIVEWAY LOCATIONS

℄ DRIVES	WIDTH	OFFSET
13+57	40'	49' Rt.
14+37	25'	40.5' Lt.
15+04	25'	42.5' Lt.
15+59	15'	44.2' Lt.
16+02	20'	45.5' Lt.
16+74	20'	47.7' Lt.

PAVING PLAN
THOMAS ROAD
STA. 12+00 to STA. 17+00

REDUCED SIZE DO NOT SCALE

7	1-10-2 (95) 3 (160) PE	11 OF 32



NTS

THOMAS ROAD STA 13 TO STA 17
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

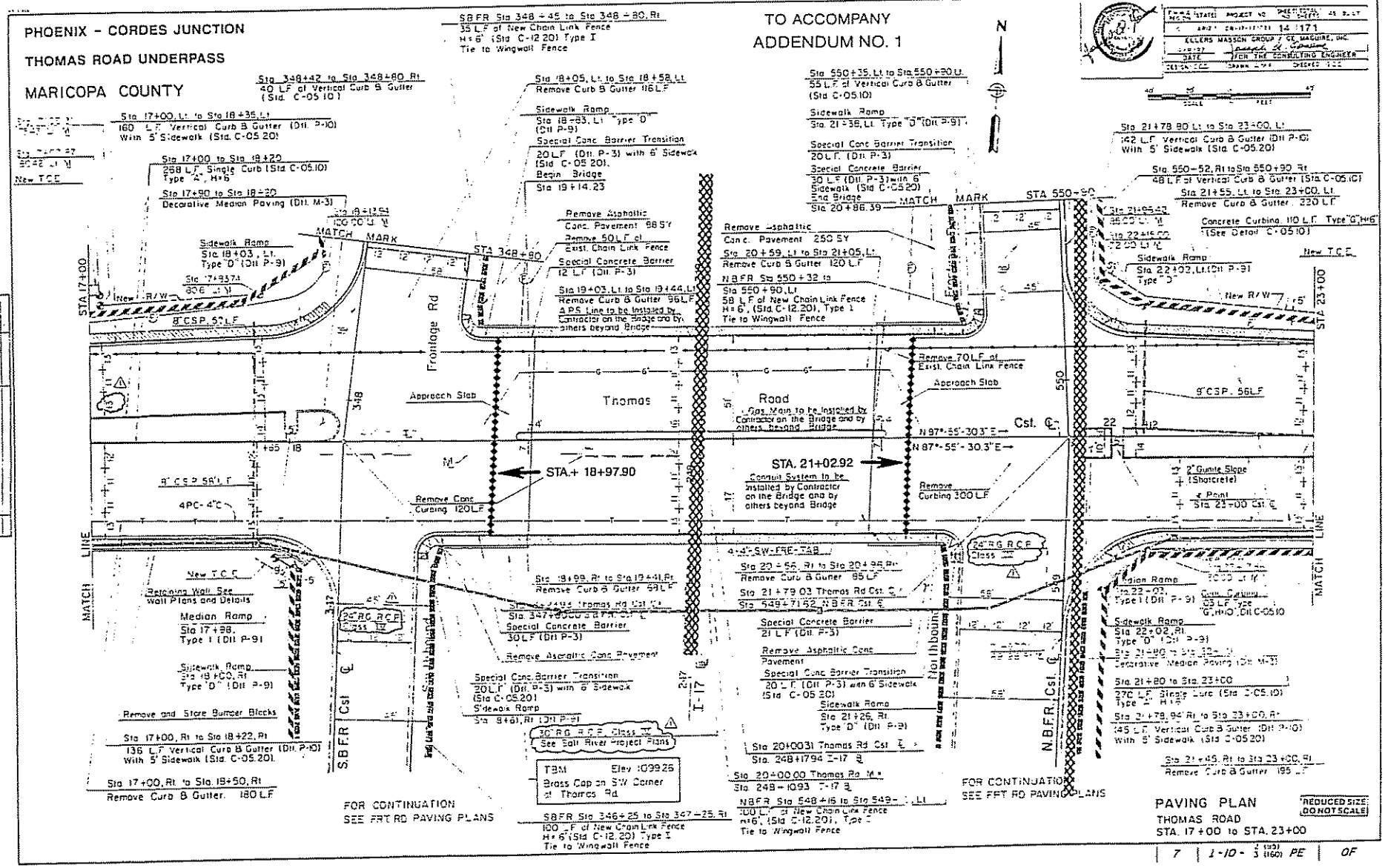
REVISED 8-3-93

PHOENIX - CORDES JUNCTION

THOMAS ROAD UNDERPASS

MARICOPA COUNTY

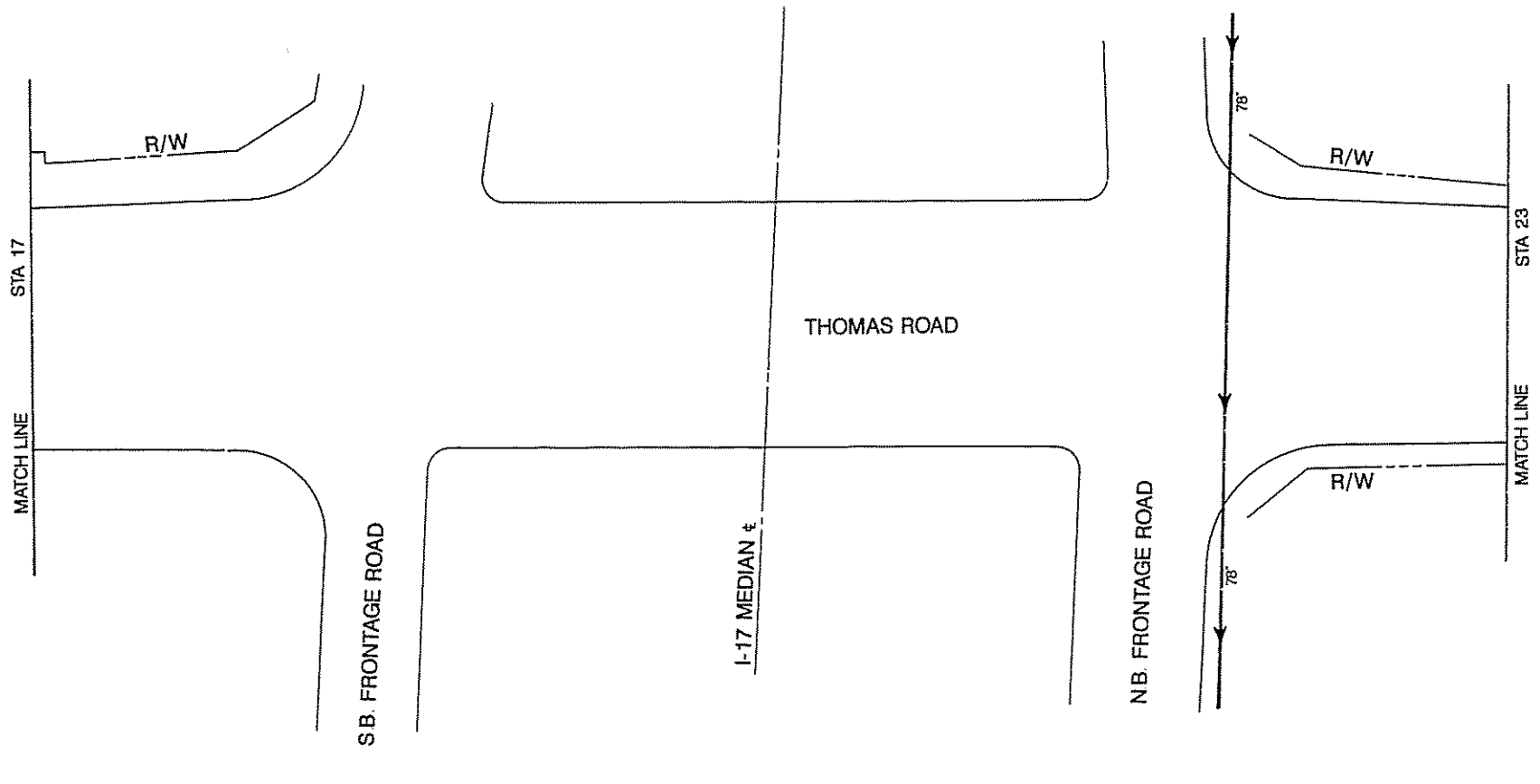
TO ACCOMPANY
ADDENDUM NO. 1



PAVING PLAN
THOMAS ROAD
STA. 17+00 to STA. 23+00

REDUCED SIZE DO NOT SCALE

7	1-10-3 (1993) PE	OF



THOMAS ROAD STA 17 TO STA 23

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

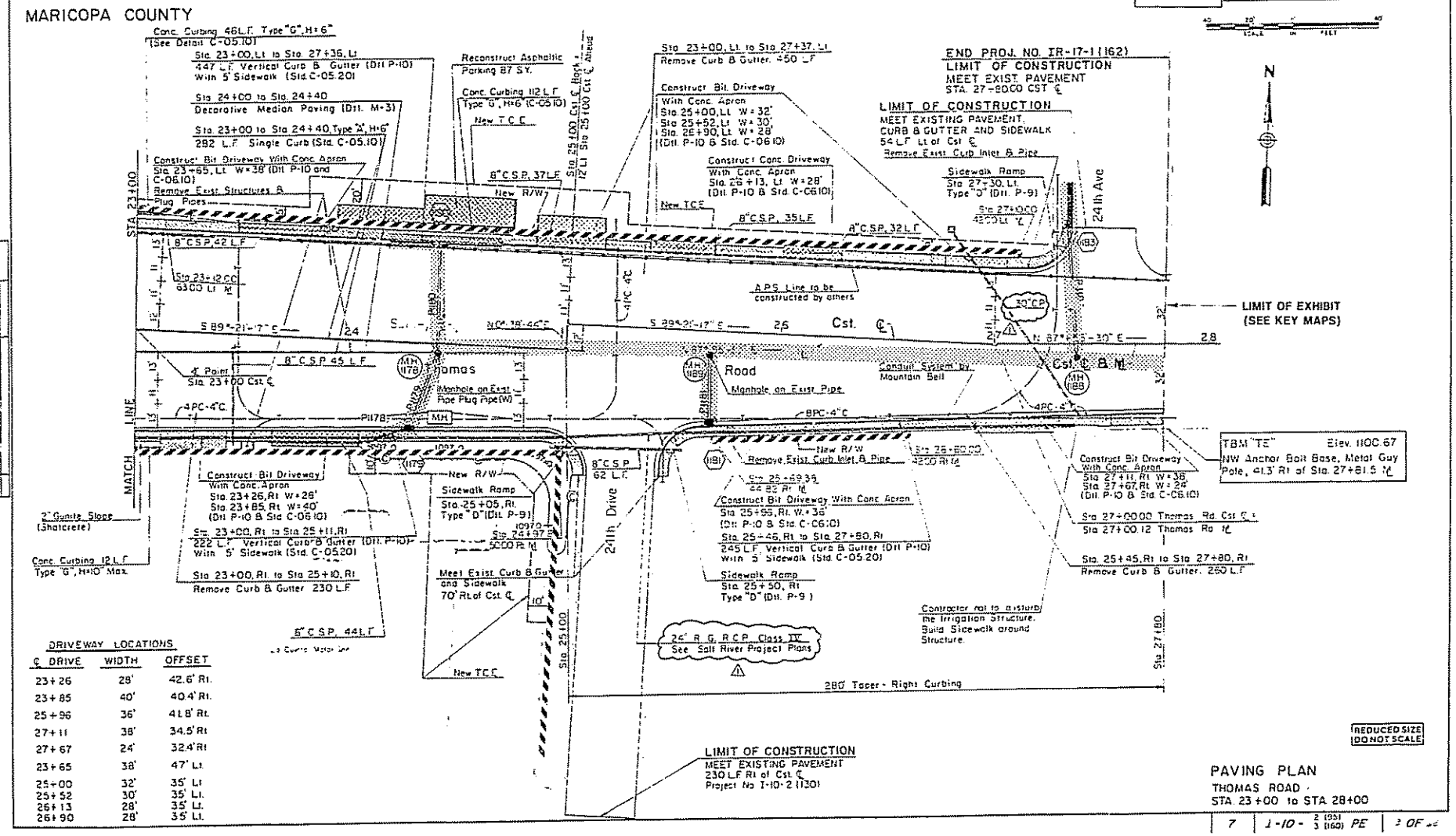
HNTB

PHOENIX – CORDES JUNCTION

THOMAS ROAD UNDERPASS

MARICOPA COUNTY

TO ACCOMPANY
ADDENDUM NO. 1



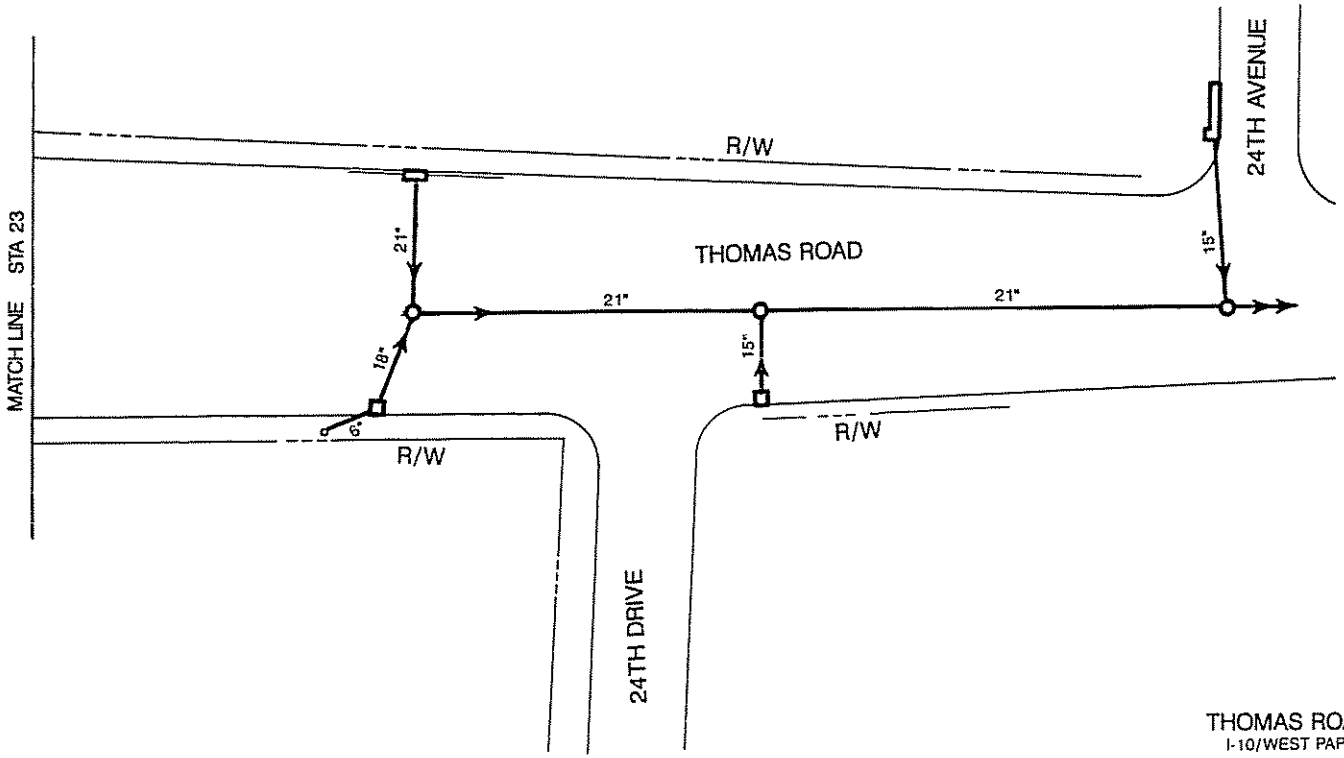
DRIVEWAY LOCATIONS

℄ DRIVE	WIDTH	OFFSET
23+26	28'	42.6' Rt.
23+85	40'	40.4' Rt.
25+96	36'	41.8' Rt.
27+11	38'	34.5' Rt.
27+67	24'	32.4' Rt.
23+65	38'	47' Lt.
25+00	32'	35' Lt.
25+52	30'	35' Lt.
26+13	28'	35' Lt.
26+90	28'	35' Lt.

REDUCED SIZE DO NOT SCALE

PAVING PLAN
THOMAS ROAD
STA. 23+00 to STA. 28+00

7	I-10 - 2 (95) 3 (160) PE	3 OF 4



NTS

THOMAS ROAD STA 23 TO STA 27+80

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

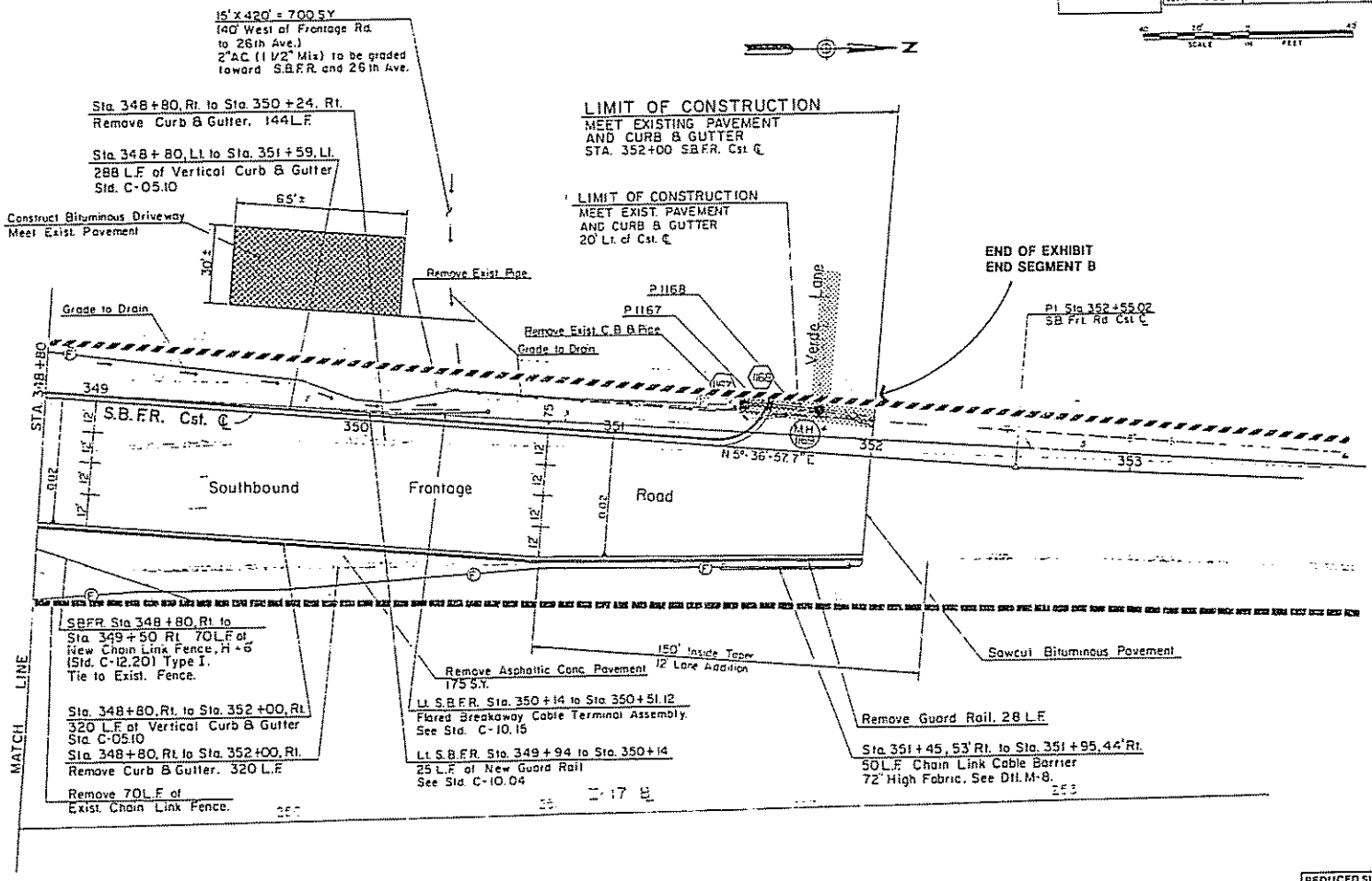
REVISED 8-3-93

B-81

PHOENIX – CORDES JUNCTION

THOMAS ROAD UNDERPASS

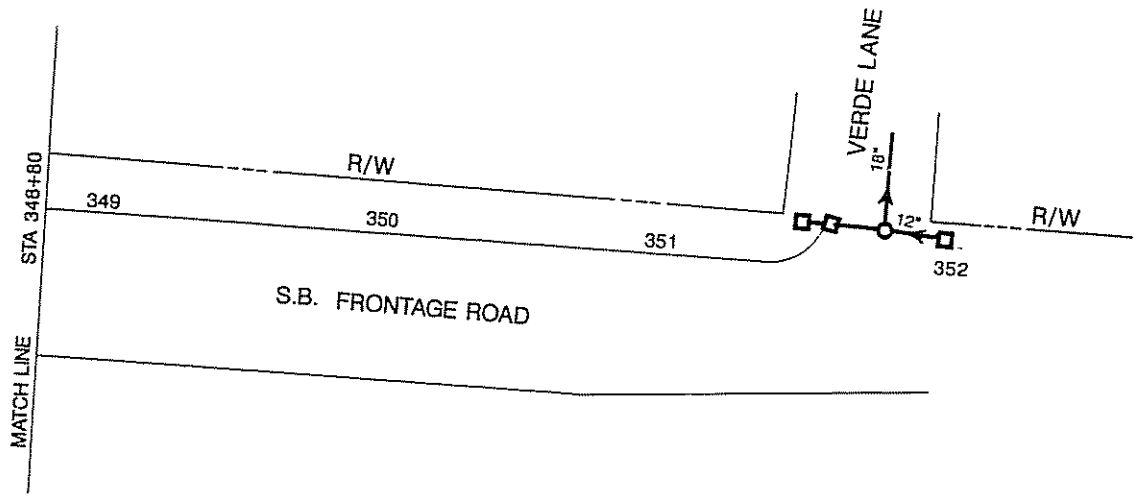
MARICOPA COUNTY



REDUCED SIZE
DO NOT SCALE

PAVING PLAN
SOUTHBOUND FRONTAGE ROAD
STA. 348+80 To STA. 352+00

7	I-10-2(95) 3(160)	PE	14 OF 62



NTS

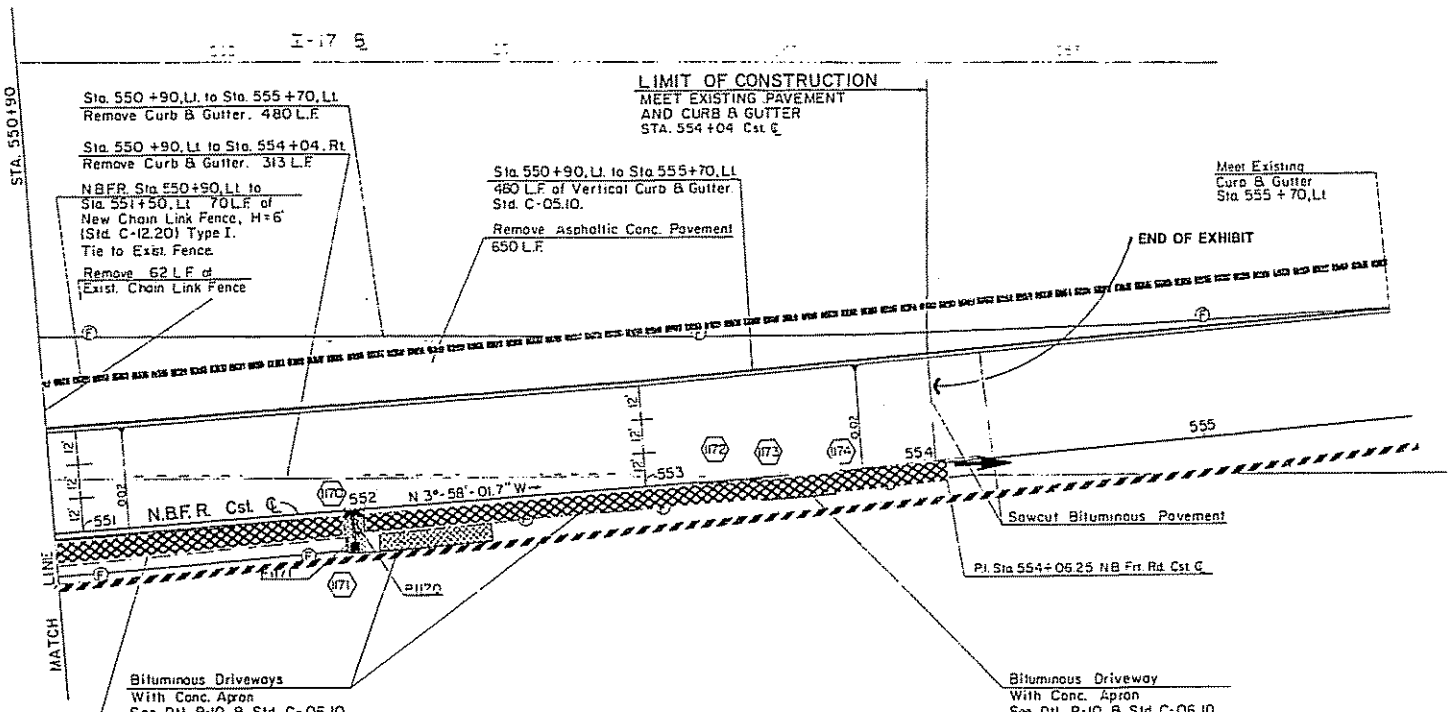
S.B. FRONTAGE ROAD STA 348+80 TO STA 352
I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

PHOENIX - CORDES JUNCTION

THOMAS ROAD UNDERPASS

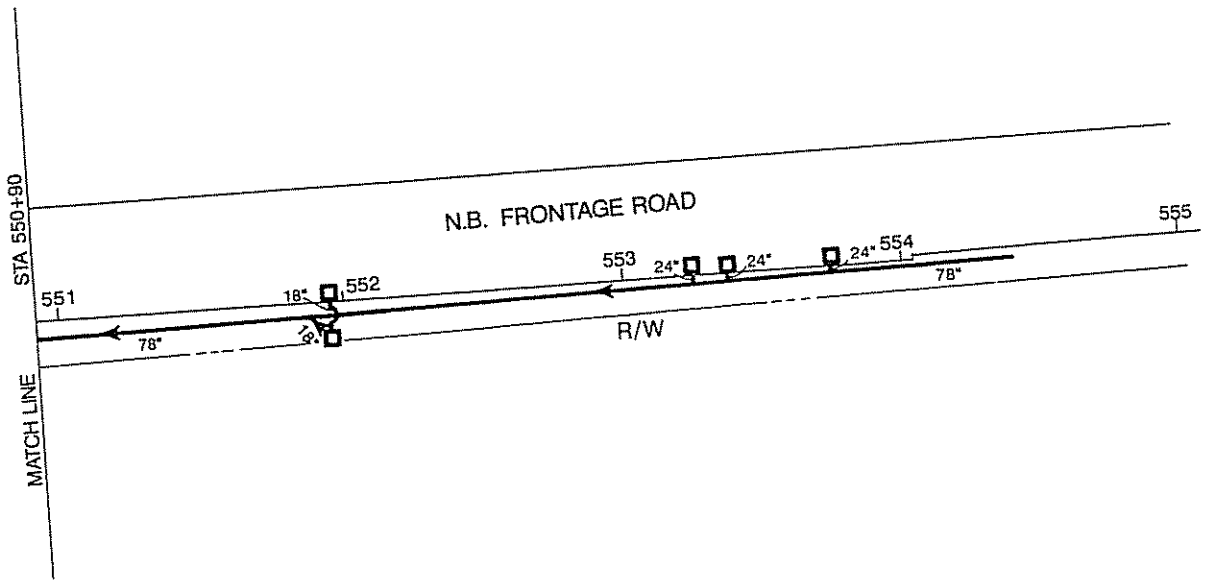
MARICOPA COUNTY



DRIVEWAY LOCATIONS		
℄ OF DRIVE	WIDTH	OFFSET
552+25	40'	2' Rt.
552+79	24'	2' Rt.
553+55	16'	2' Rt.

REDUCED SIZE DO NOT SCALE

PAVING PLAN
NORTHBOUND FRONTAGE ROAD
STA. 550+90 To Sta. 554+04



NTS

N.B. FRONTAGE ROAD STA 550+90 TO STA 555

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

DRAINAGE

MAINTENANCE EXHIBIT

I-10 Segment C

15th Avenue to 16th Street

This exhibit defines the areas of maintenance responsibility for the Arizona Department of Transportation and the City of Phoenix. The delineated areas apply to the responsibilities for maintenance of stormwater drainage facilities.

REVISED 8-3-93

City of Phoenix Maintained Facilities

Department of Transportation Maintained Facilities

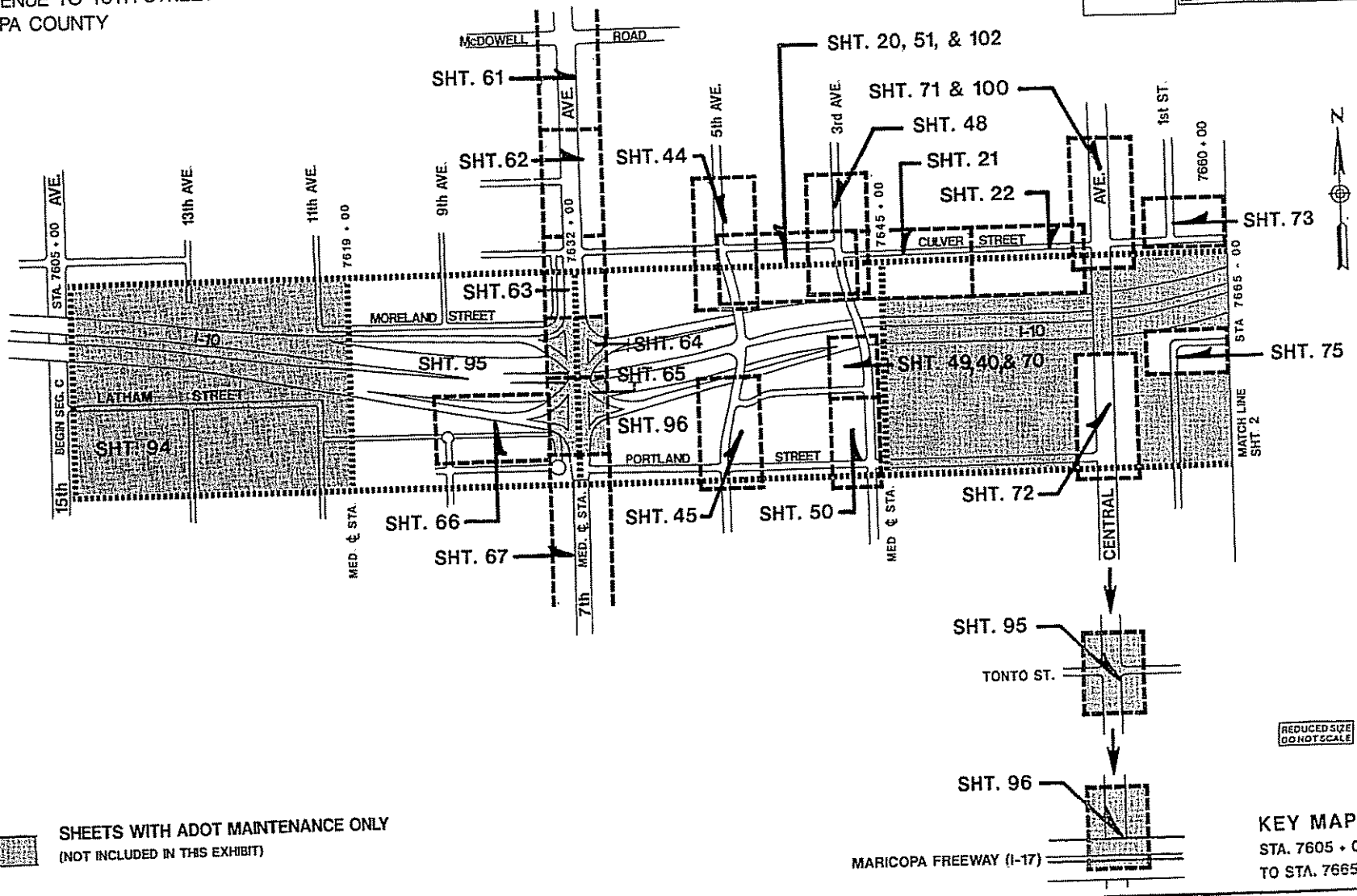
(C-1)

FHWA REGION	STATE	PROJECT NO.	SHEET NO. OF TOTAL SHEETS	AS BUILT
9	AZ		1	

DATE FOR THE CONSULTING ENGINEER

DESIGN: DRAWN: CHECKED

PHOENIX - CASA GRANDE HIGHWAY
15TH AVENUE TO 16TH STREET
MARICOPA COUNTY

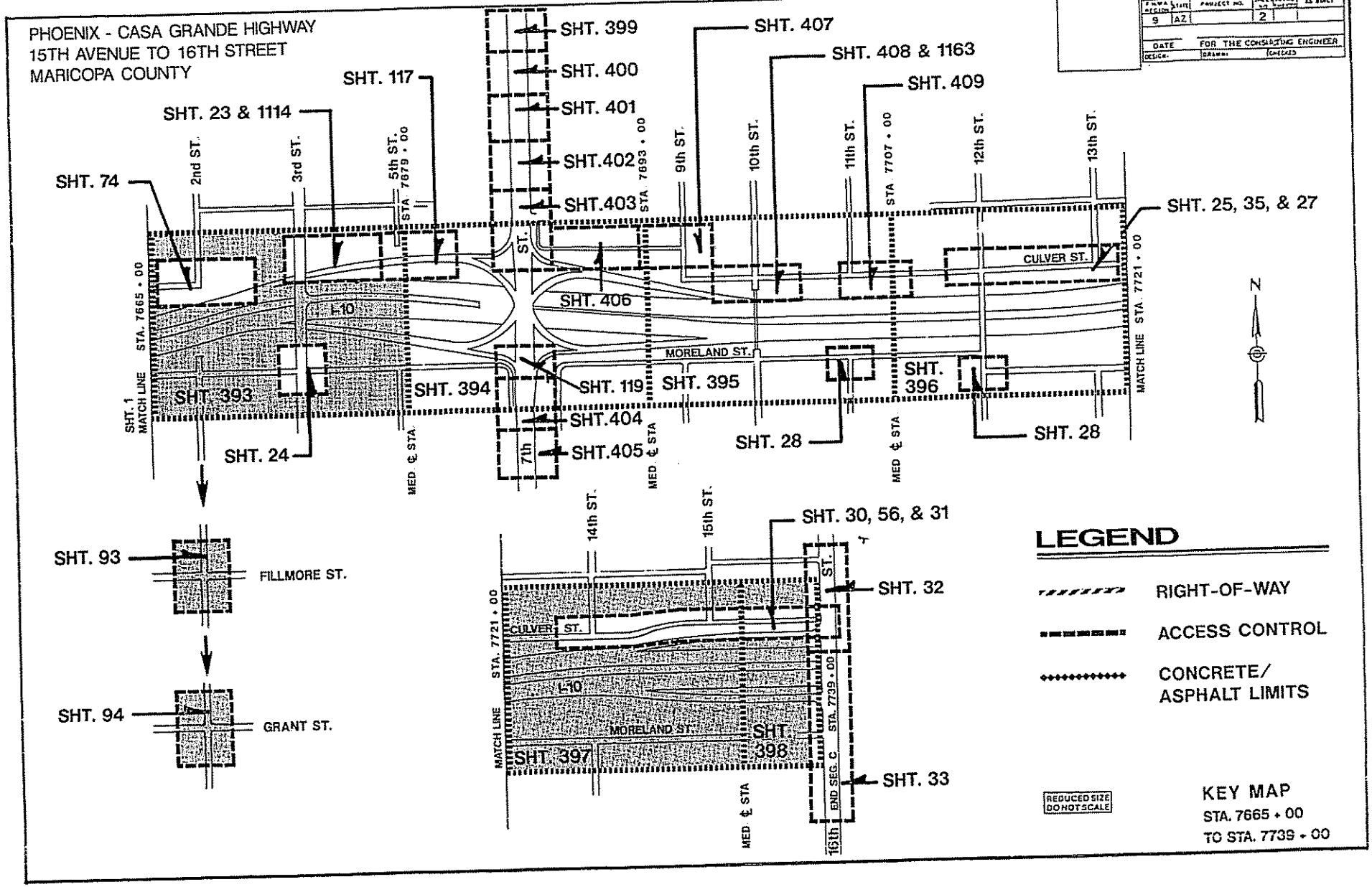


SHEETS WITH ADOT MAINTENANCE ONLY
(NOT INCLUDED IN THIS EXHIBIT)

KEY MAP
STA. 7605 + 00
TO STA. 7665 + 00

C-2

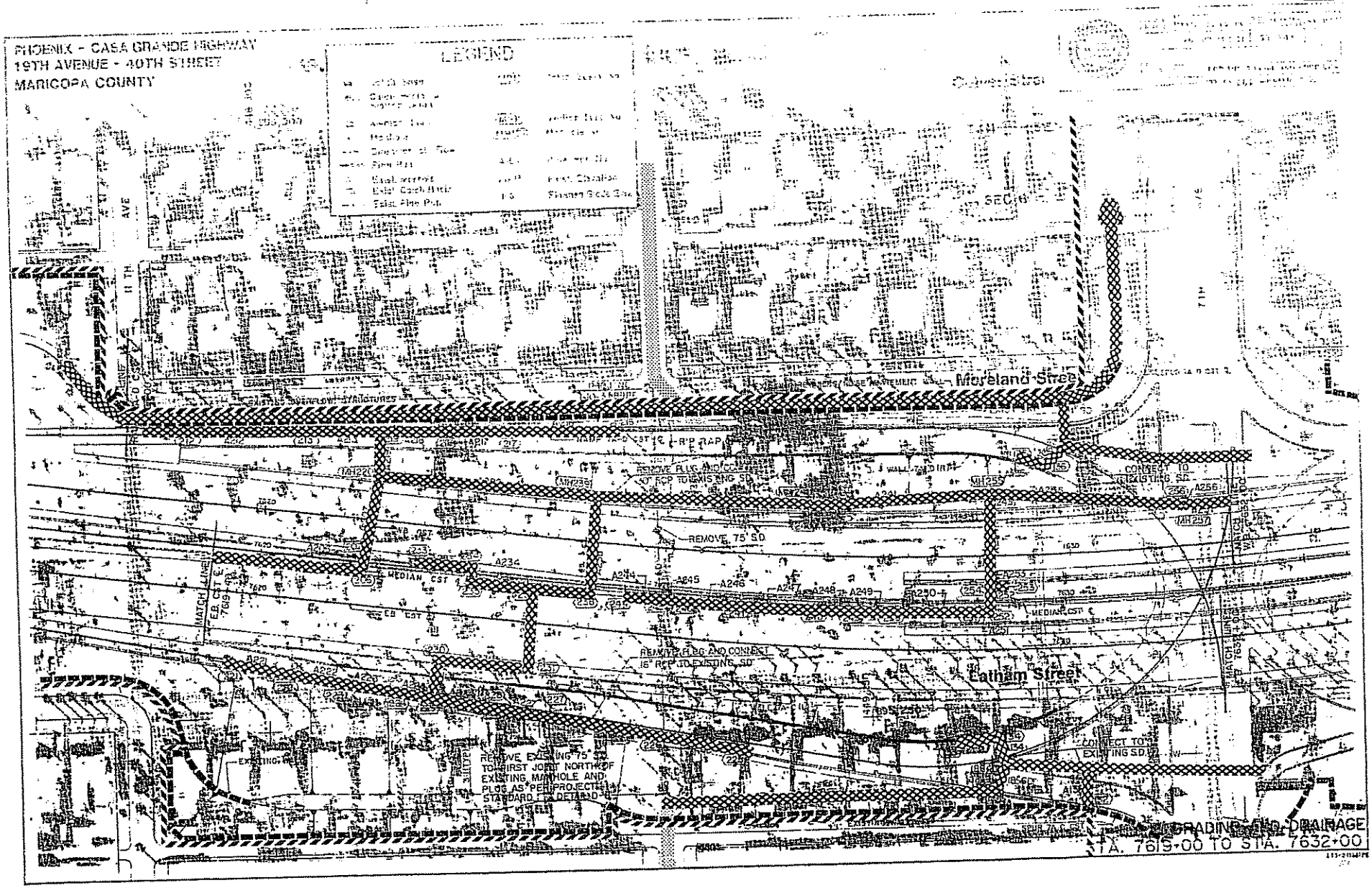
PHOENIX - CASA GRANDE HIGHWAY
15TH AVENUE TO 16TH STREET
MARICOPA COUNTY



FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ		2		

DATE FOR THE CONSULTING ENGINEER
DESIGN- DRAWN- CHECKED

PHOENIX - CASA GRANDE HIGHWAY
19TH AVENUE - 40TH STREET
MARICOPA COUNTY

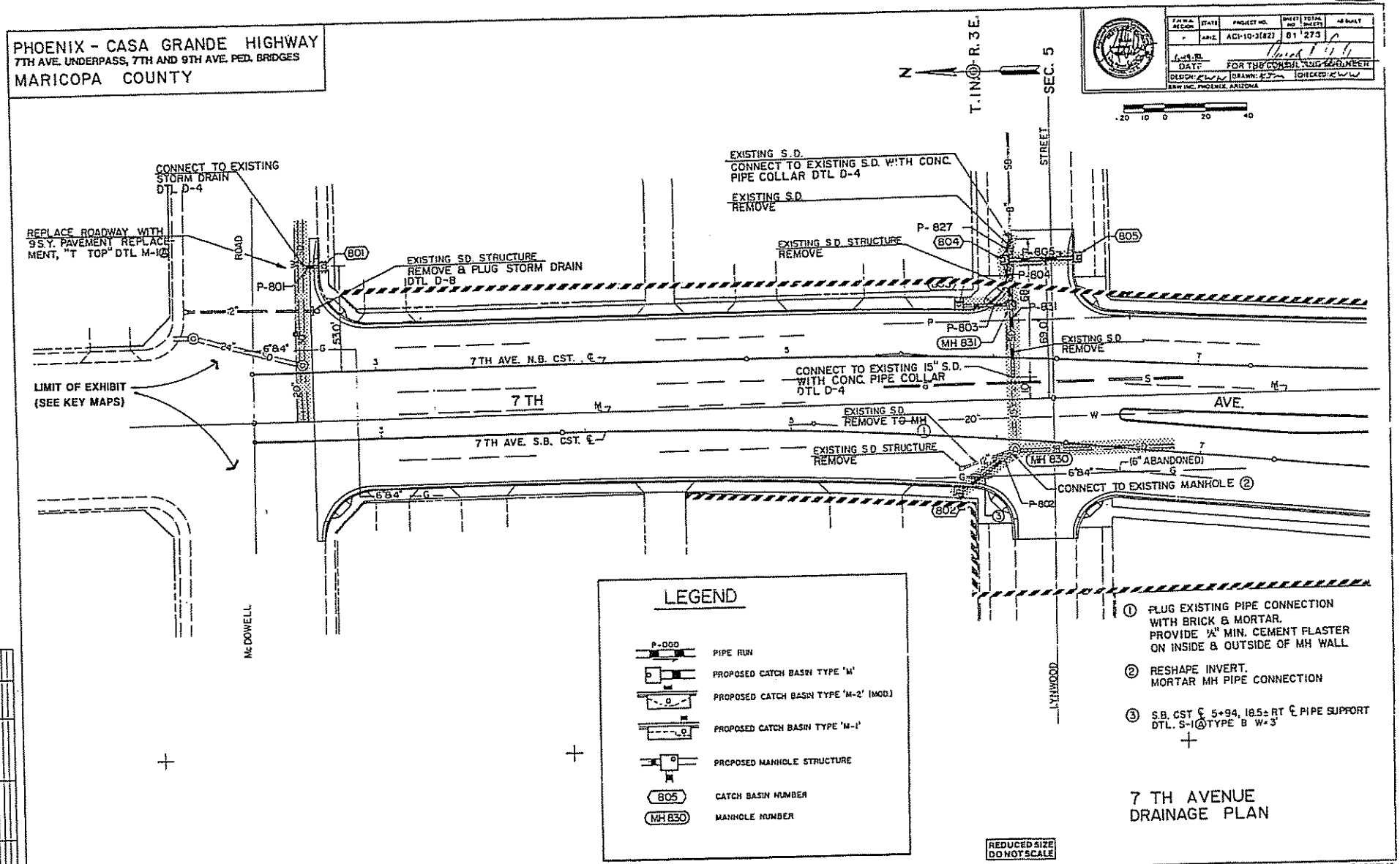


C-4

PHOENIX - CASA GRANDE HIGHWAY
7TH AVE. UNDERPASS, 7TH AND 9TH AVE. PED. BRIDGES
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ACI-10-3(82)	81	273	

DATE: FOR THE CONSULTING ENGINEER
DESIGN: KWW DRAWN: KJM CHECKED: KWW
KRW INC. PHOENIX, ARIZONA



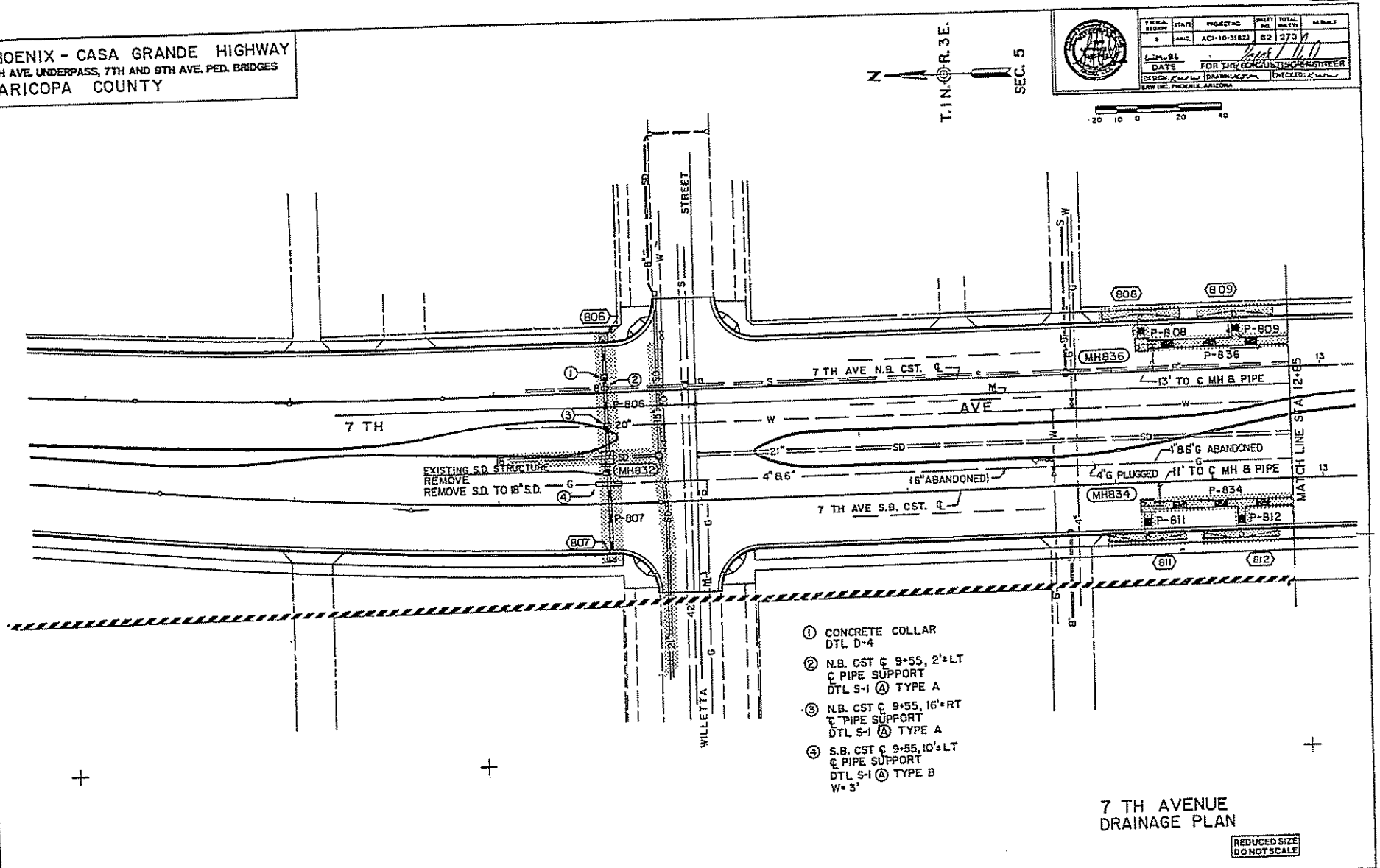
7 TH AVENUE
DRAINAGE PLAN

C-5

PHOENIX - CASA GRANDE HIGHWAY
7TH AVE. UNDERPASS, 7TH AND 9TH AVE. PED. BRIDGES
MARICOPA COUNTY

FAIRA. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
5	ARIZ.	ACI-10-3(62)	62	273	

DATE FOR THE CONSULTING ENGINEER
DESIGN: DRAWN: CHECKED:
BRW INC. PHOENIX, ARIZONA



① CONCRETE COLLAR
DTL D-4

② N.B. CST ℄ 9+55, 2'±LT
℄ PIPE SUPPORT
DTL S-1 Ⓐ TYPE A

③ N.B. CST ℄ 9+55, 16'±RT
℄ PIPE SUPPORT
DTL S-1 Ⓐ TYPE A

④ S.B. CST ℄ 9+55, 10'±LT
℄ PIPE SUPPORT
DTL S-1 Ⓐ TYPE B
W= 3'

7 TH AVENUE
DRAINAGE PLAN

REDUCED SIZE
DO NOT SCALE

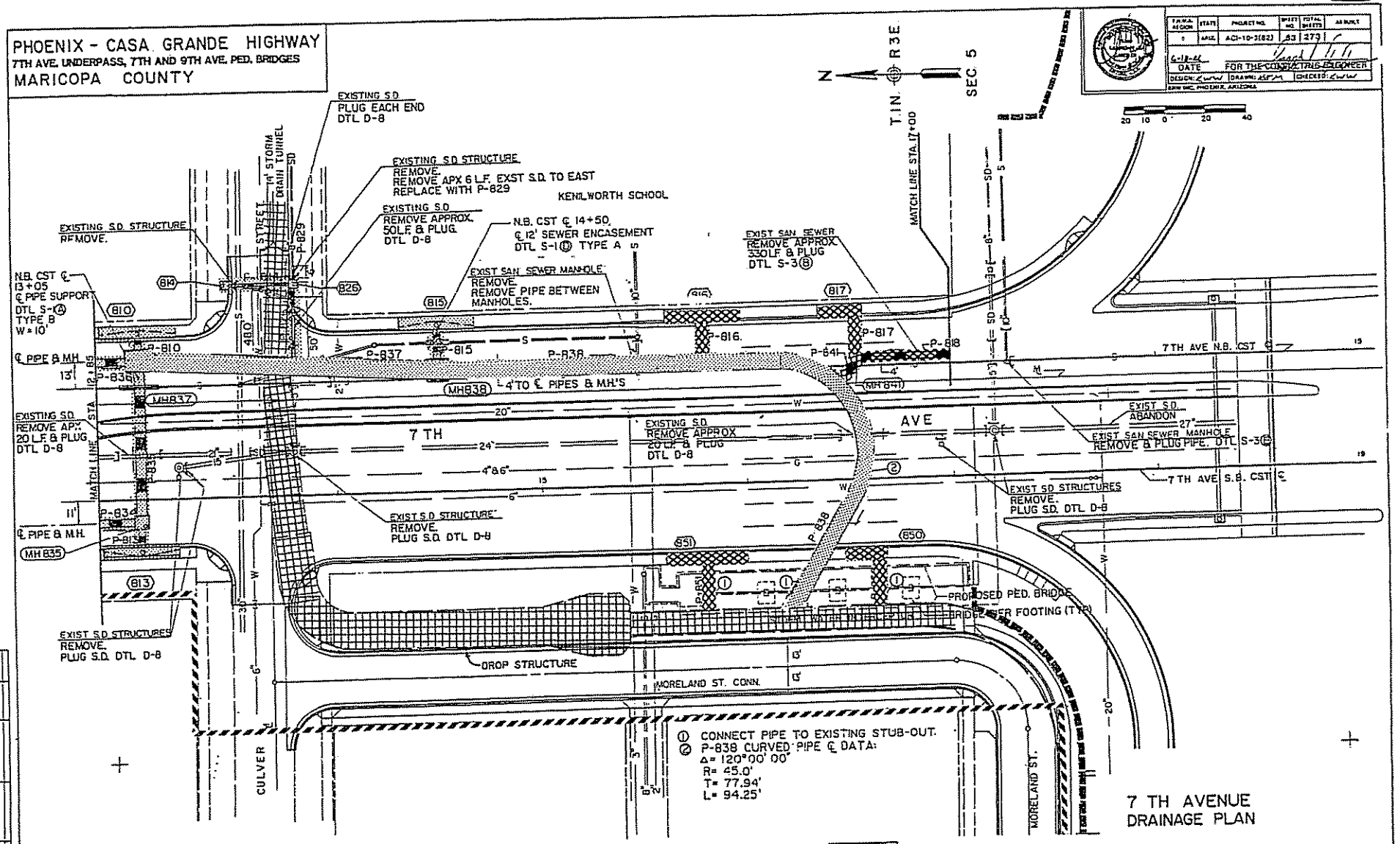
REVISED 8-3-93

C-6

PHOENIX - CASA GRANDE HIGHWAY
7TH AVE. UNDERPASS, 7TH AND 9TH AVE. PED. BRIDGES
MARICOPA COUNTY

FINAL RECORD	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
1	ARIZ.	ACI-10-3(82)	63	273	

6-18-86
DATE
FOR THE CONSULTING ENGINEER
DESIGN: [illegible] DRAWN: [illegible] CHECKED: [illegible]
SRW INC. PHOENIX, ARIZONA

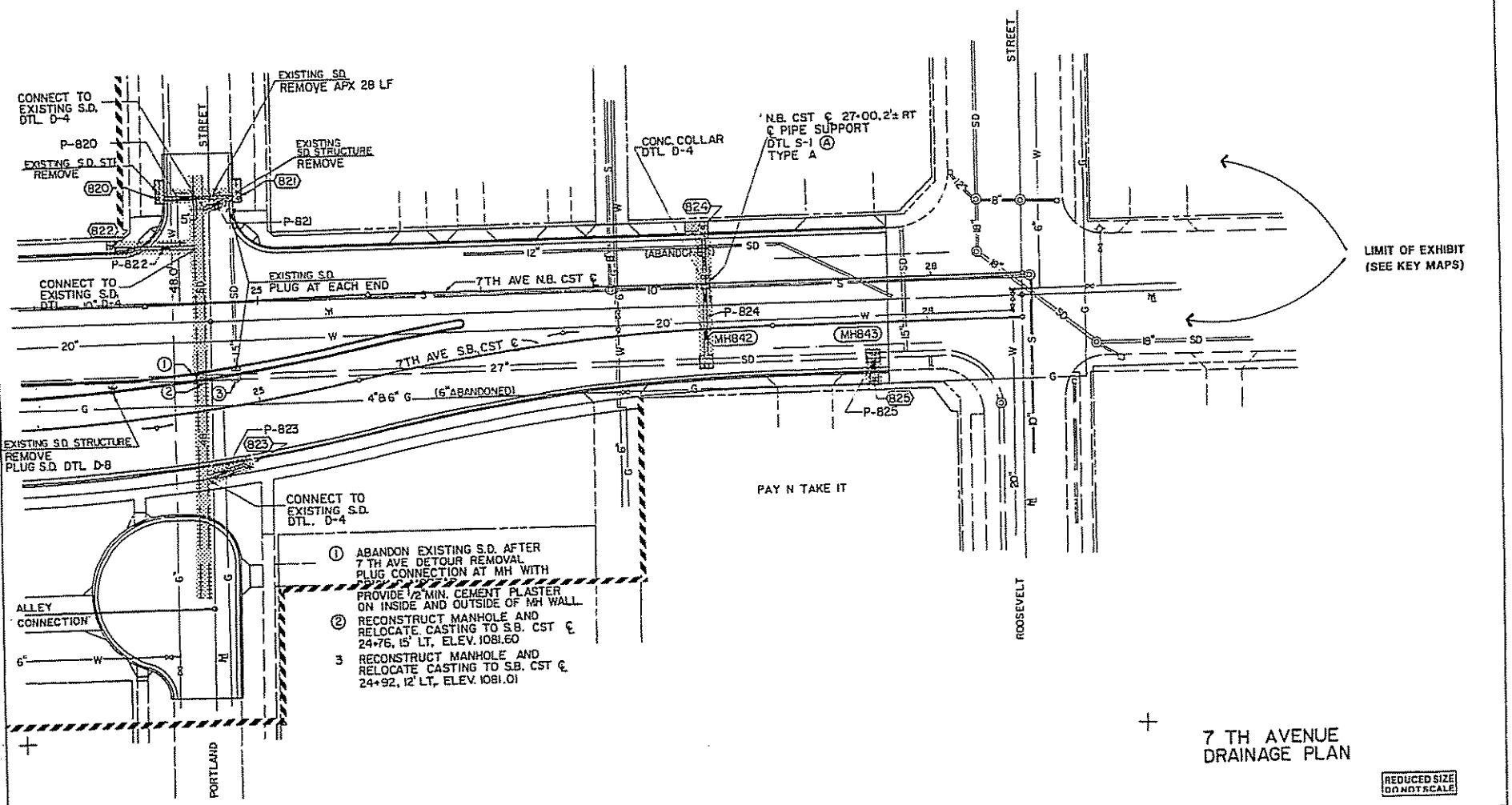


C-7

PHOENIX - CASA GRANDE HIGHWAY
7TH AVE. UNDERPASS, 7TH AND 9TH AVE. PED. BRIDGES
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
6	ARIZ.	ACI-10-3(32)	67	273	

DATE FOR THE CONSULTING ENGINEER
DESIGN: DRAWN: CHECKED:
BRW INC. PHOENIX, ARIZONA



① ABANDON EXISTING S.D. AFTER 7 TH AVE DETOUR REMOVAL PLUG CONNECTION AT MH WITH PROVIDE 1/2" MIN. CEMENT PLASTER ON INSIDE AND OUTSIDE OF MH WALL.

② RECONSTRUCT MANHOLE AND RELOCATE CASTING TO S.B. CST ℄ 24+76, 15' LT, ELEV. 1081.60

3 RECONSTRUCT MANHOLE AND RELOCATE CASTING TO S.B. CST ℄ 24+92, 12' LT, ELEV. 1081.01

7 TH AVENUE DRAINAGE PLAN

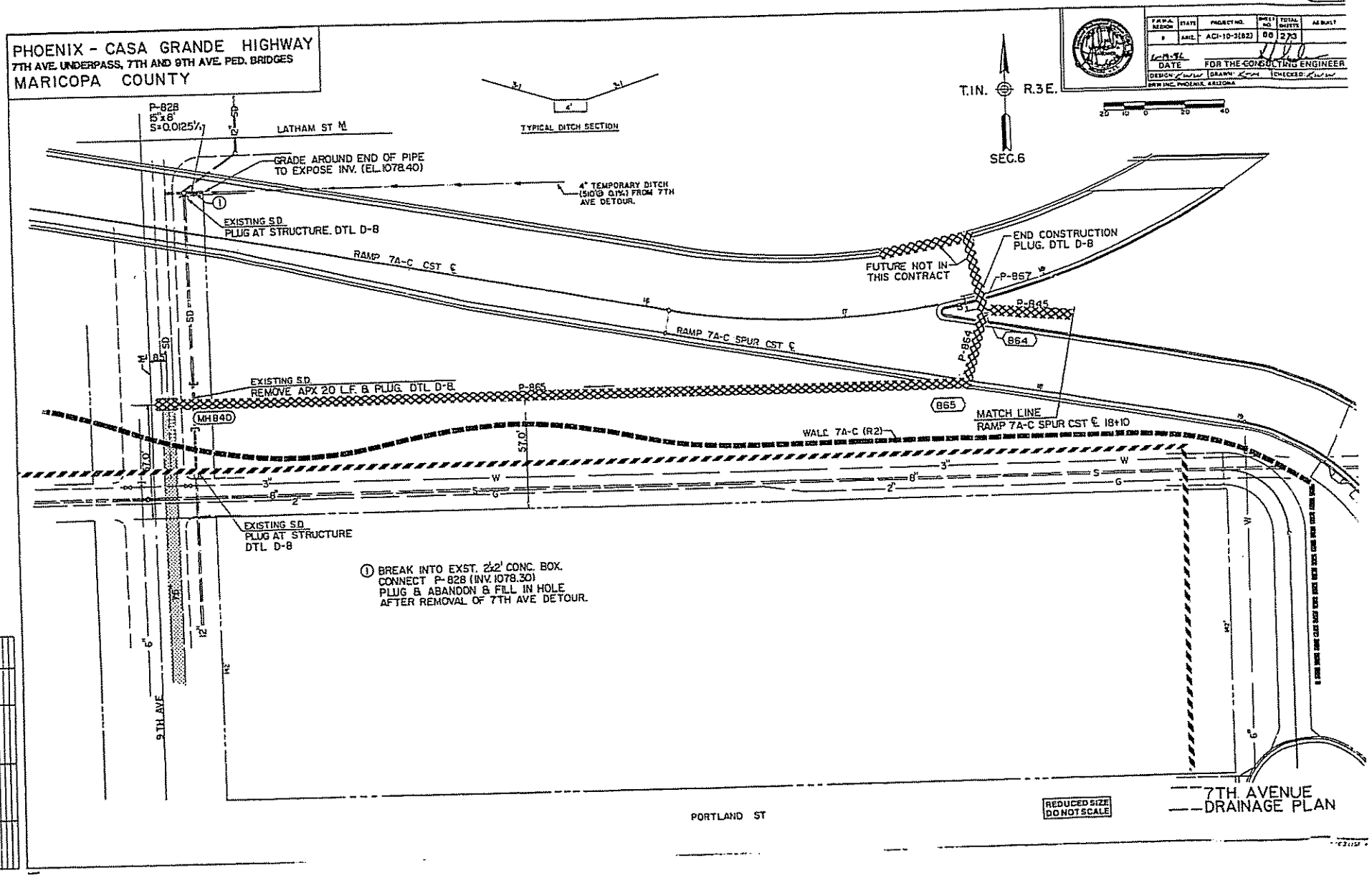
REDUCED SIZE DO NOT SCALE

C-8

PHOENIX - CASA GRANDE HIGHWAY
7TH AVE. UNDERPASS, 7TH AND 9TH AVE. PED. BRIDGES
MARICOPA COUNTY

FAPA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ACI-10-3(82)	86	273	

DATE — FOR THE CONSULTING ENGINEER
DESIGN — DRAWN — CHECKED
DRW INC. PHOENIX, ARIZONA



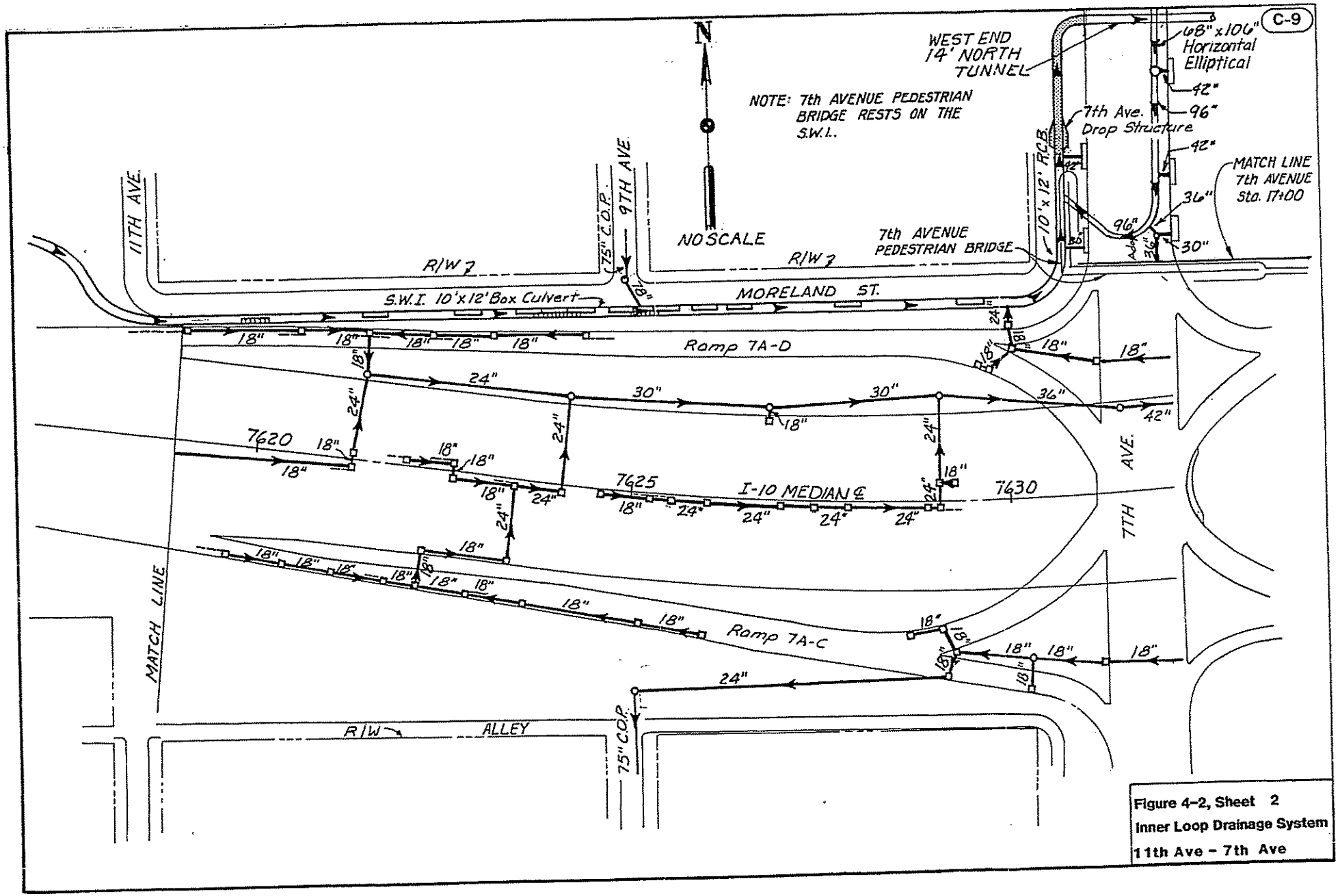


Figure 4-2, Sheet 2
Inner Loop Drainage System
11th Ave - 7th Ave

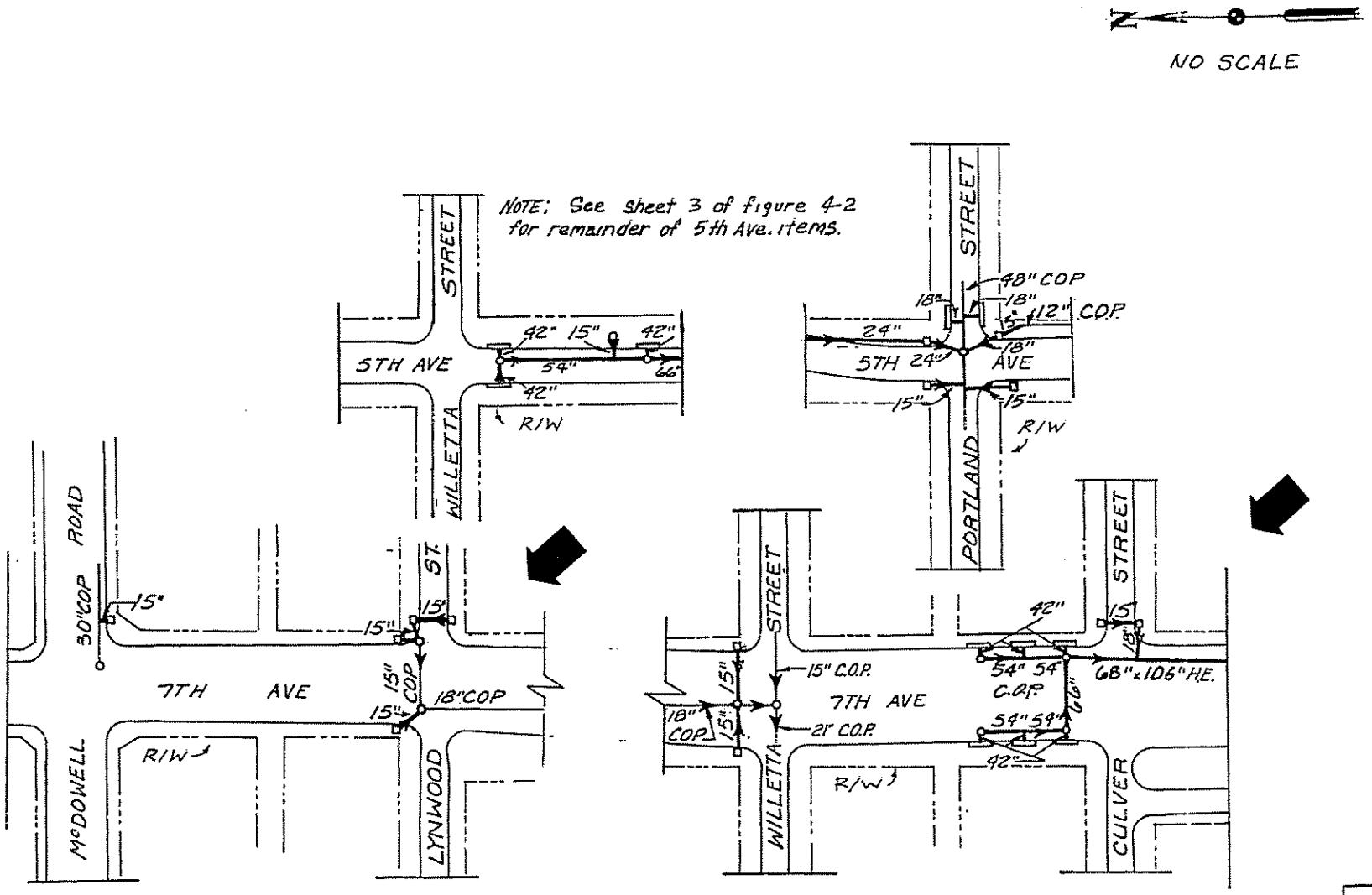
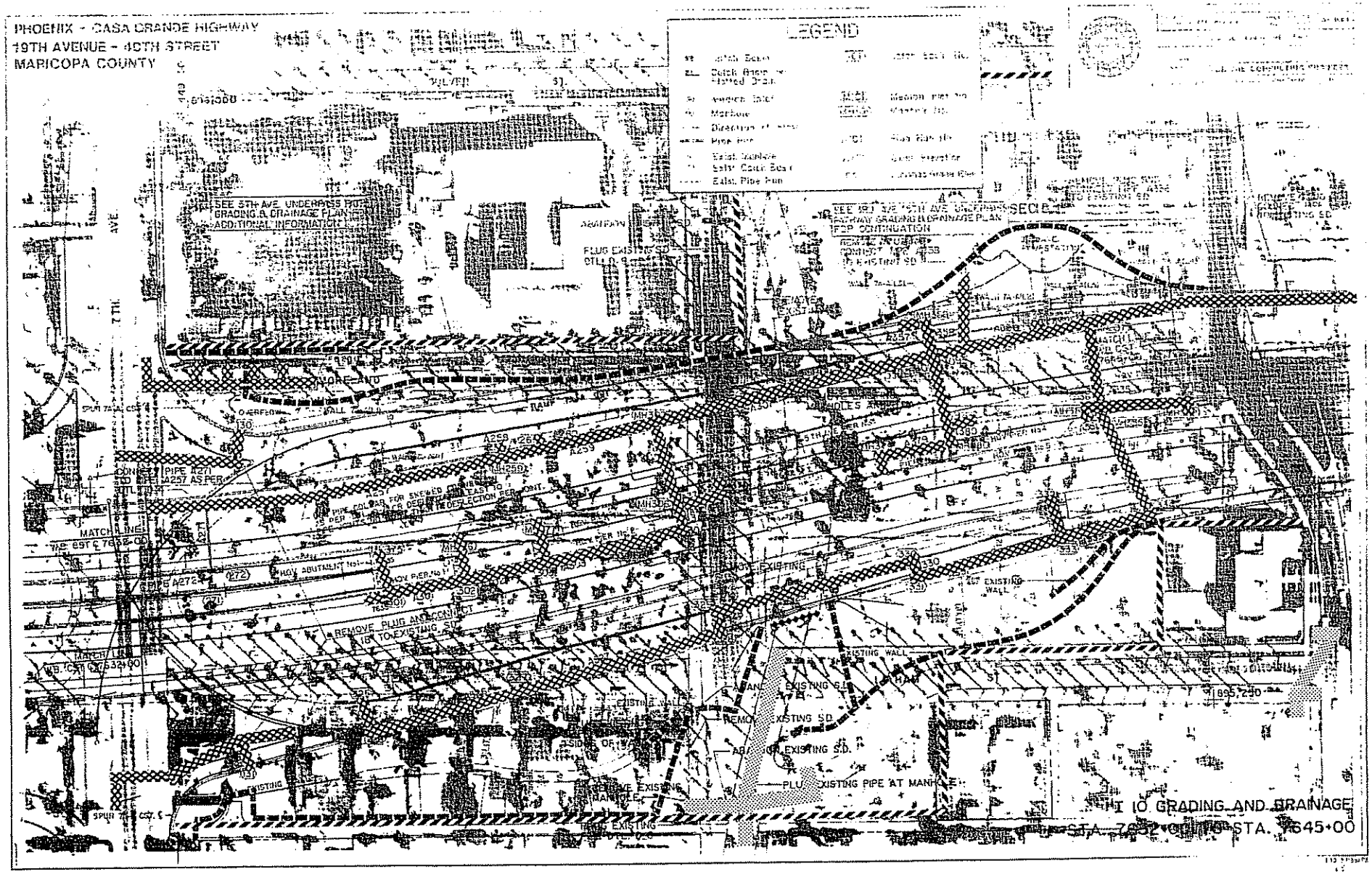


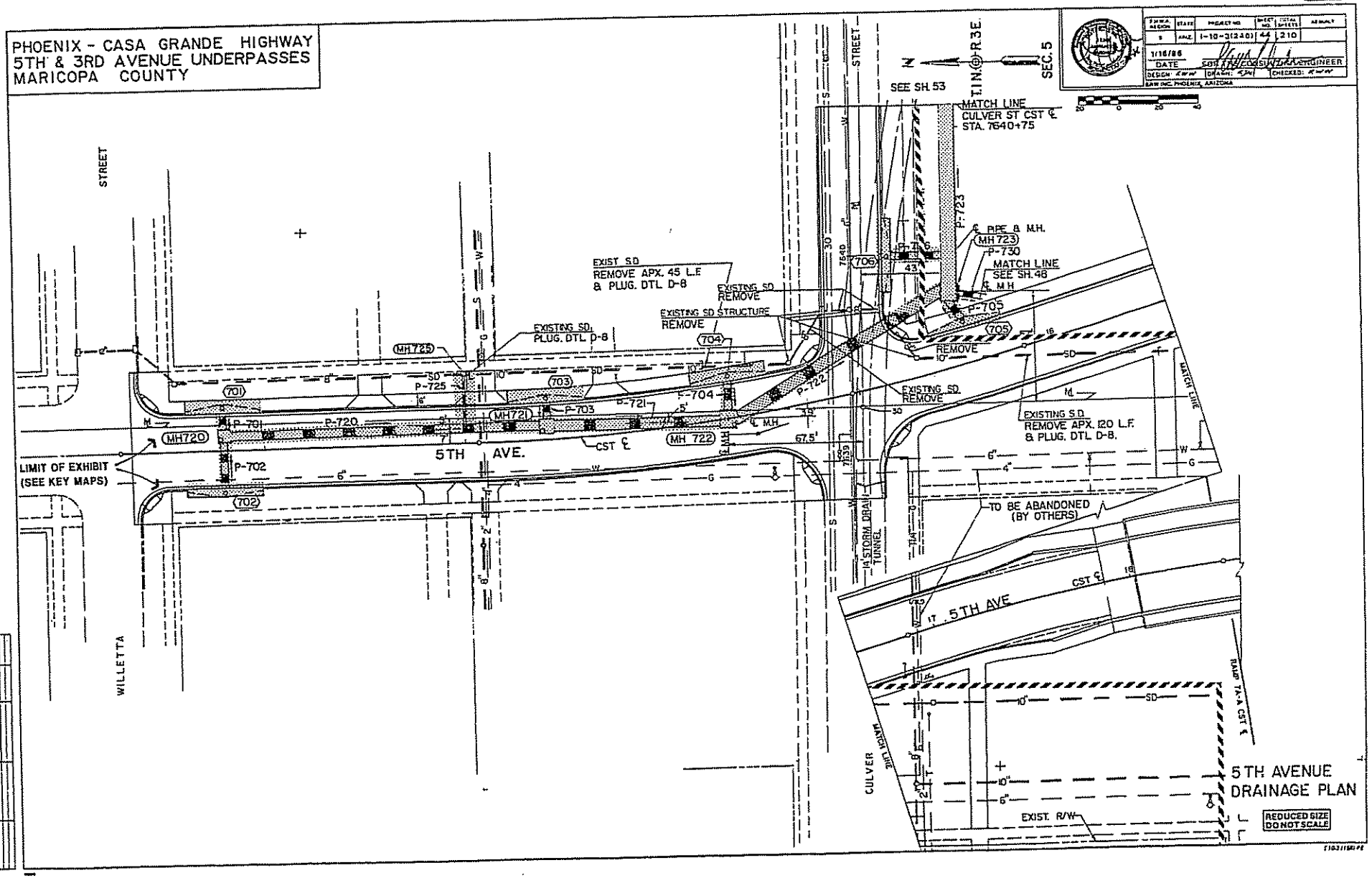
Figure 4-2, Sheet 4
Inner Loop Drainage System
7th Ave and 5th Ave


PHOENIX - CASA GRANDE HIGHWAY
19TH AVENUE - 40TH STREET
MARICOPA COUNTY
LEGEND
SEE 5TH AVE. UNDERPASS FOR GRADING & DRAINAGE PLAN FOR ADDITIONAL INFORMATION
SEE 3RD AVE. 5TH AVE. UNDERPASS PATHWAY GRADING & DRAINAGE PLAN FOR CONTINUATION
MATCH LINE
REMOVE PLUG AND CONNECT 18" TO EXISTING SD
REMOVE EXISTING
EXISTING WALL
REMOVE EXISTING SD
PLUG EXISTING PIPE AT MANHOLE
GRADING AND DRAINAGE
STA. 7632+00 TO STA. 7645+00

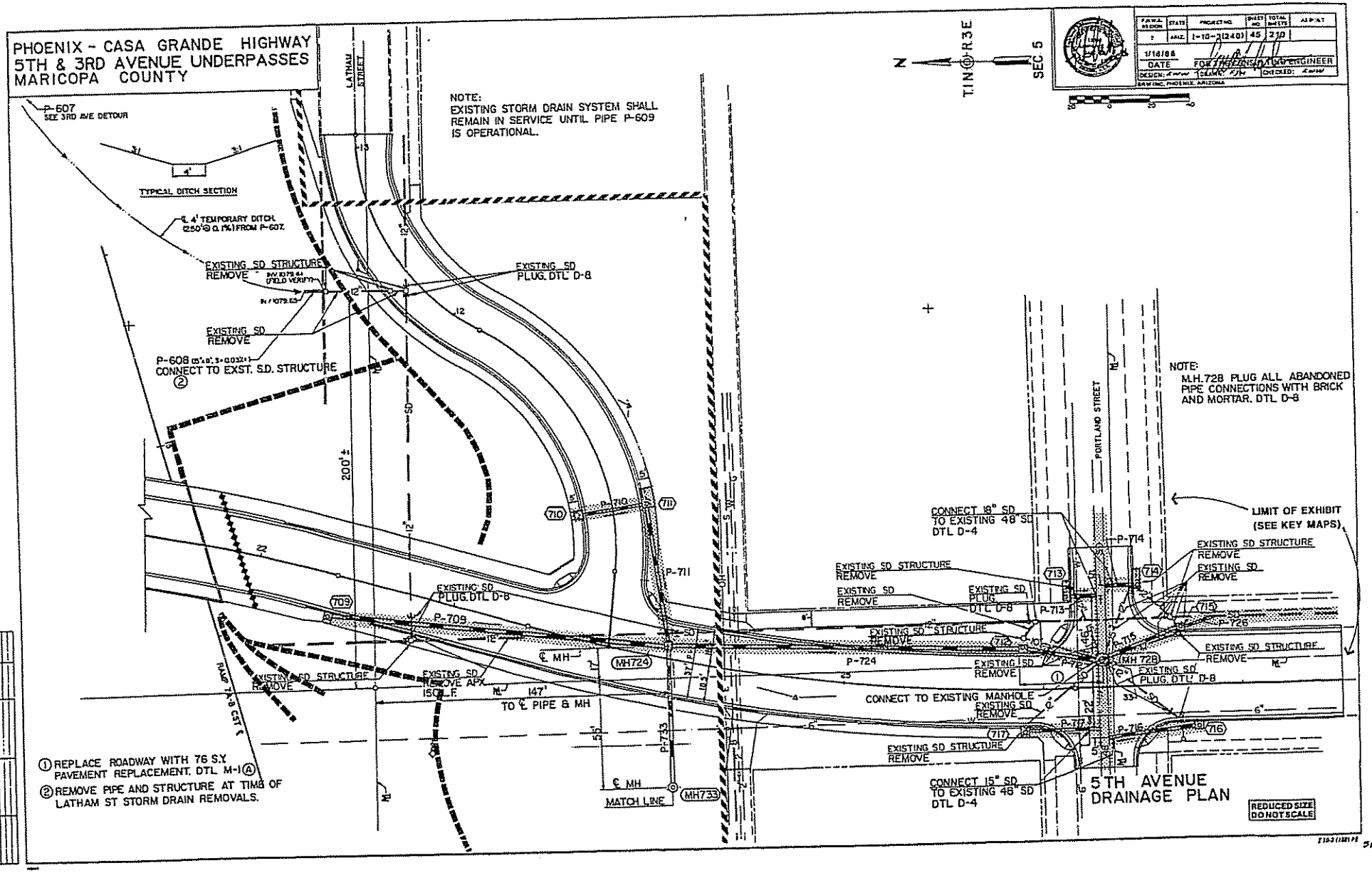
REVISED 8-3-93

C-12

PHOENIX - CASA GRANDE HIGHWAY
5TH & 3RD AVENUE UNDERPASSES
MARICOPA COUNTY



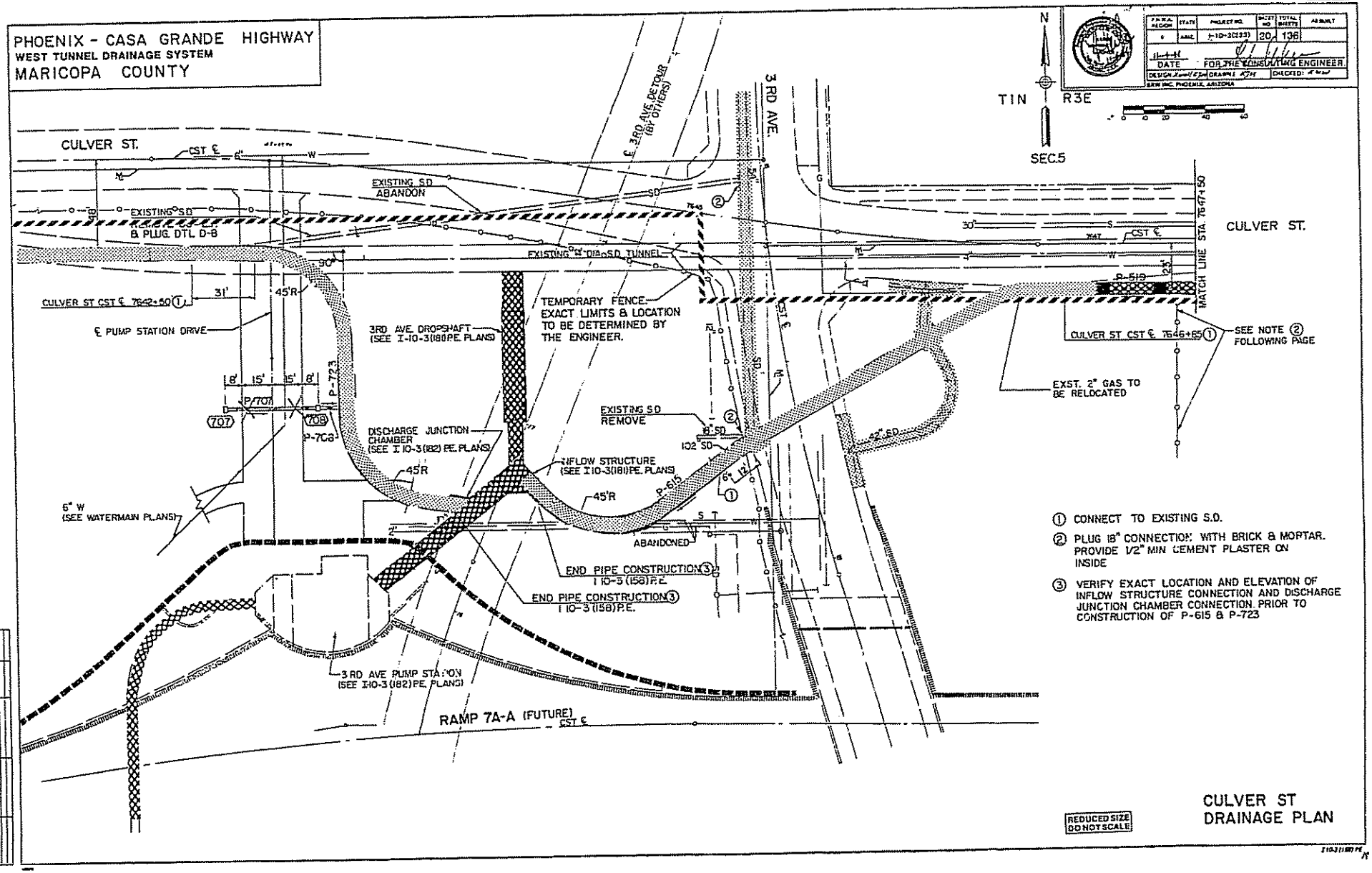
5TH AVENUE
DRAINAGE PLAN


PHOENIX - CASA GRANDE HIGHWAY
5TH & 3RD AVENUE UNDERPASSES
MARICOPA COUNTY
P-607
SEE 3RD AVE DETOUR
TYPICAL DITCH SECTION
℄ 4' TEMPORARY DITCH (250'@ 0.1%) FROM P-607
EXISTING SD STRUCTURE REMOVE
EXISTING SD PLUG, DTL D-8
EXISTING SD REMOVE
P-608 CONNECT TO EXST. SD. STRUCTURE
LATHAM STREET
NOTE:
EXISTING STORM DRAIN SYSTEM SHALL REMAIN IN SERVICE UNTIL PIPE P-609 IS OPERATIONAL.
N
T1N R3E
SEC 5
PORTLAND STREET
NOTE:
M.H.728 PLUG ALL ABANDONED PIPE CONNECTIONS WITH BRICK AND MORTAR. DTL D-8
LIMIT OF EXHIBIT (SEE KEY MAPS)
CONNECT 18" SD TO EXISTING 48" SD DTL D-4
CONNECT TO EXISTING MANHOLE
CONNECT 15" SD TO EXISTING 48" SD DTL D-4
℄ MH
MH724
MH 728
MH733
MATCH LINE
147' TO ℄ PIPE & MH
RAMP 7-8 CST ℄
① REPLACE ROADWAY WITH 76 S.Y. PAVEMENT REPLACEMENT. DTL M-1Ⓐ
② REMOVE PIPE AND STRUCTURE AT TIME OF LATHAM ST STORM DRAIN REMOVALS.
5TH AVENUE DRAINAGE PLAN
REDUCED SIZE DO NOT SCALE

REVISED 8-3-93

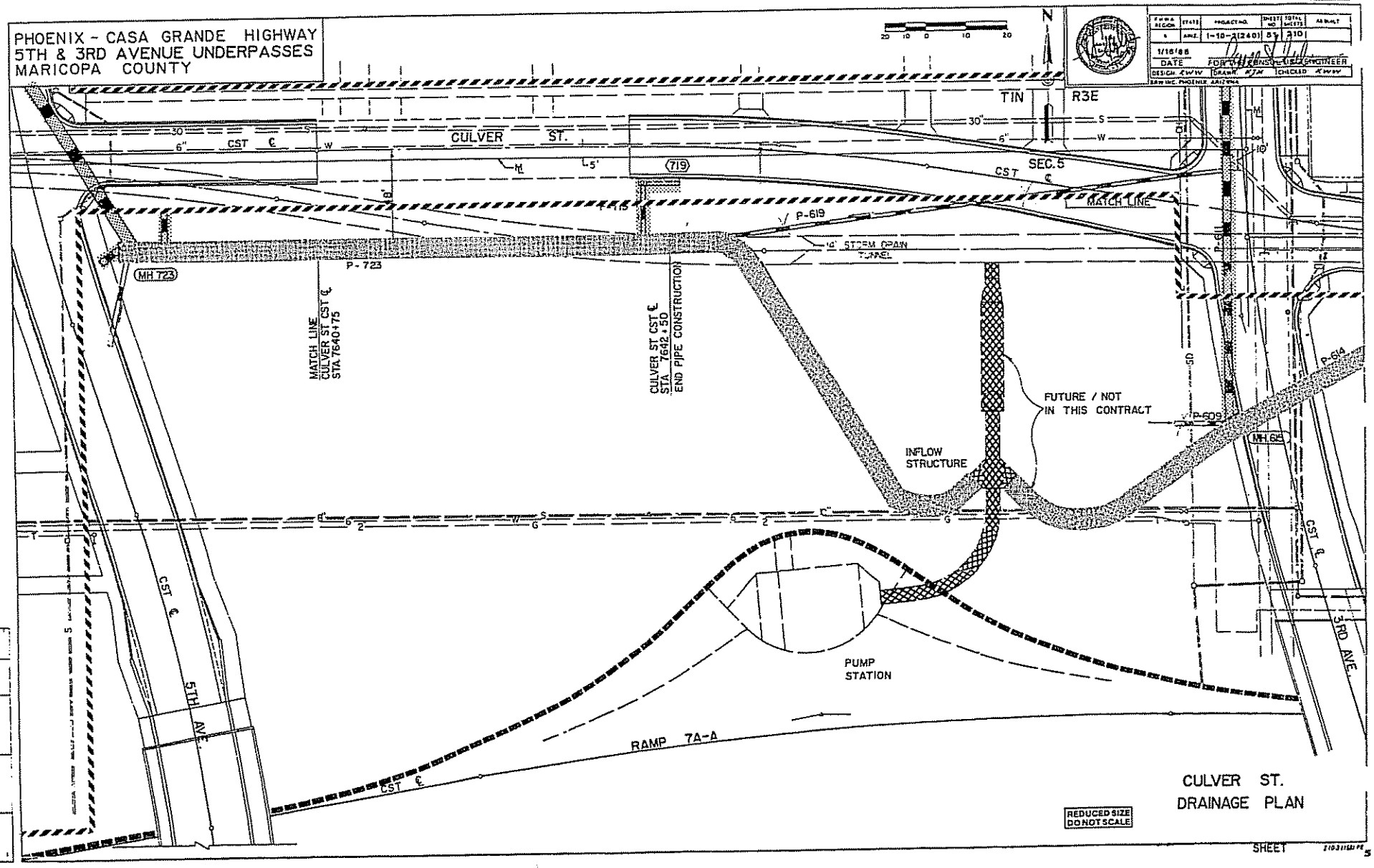
C-14

PHOENIX - CASA GRANDE HIGHWAY
WEST TUNNEL DRAINAGE SYSTEM
MARICOPA COUNTY



REVISED 8-3-93

C-15



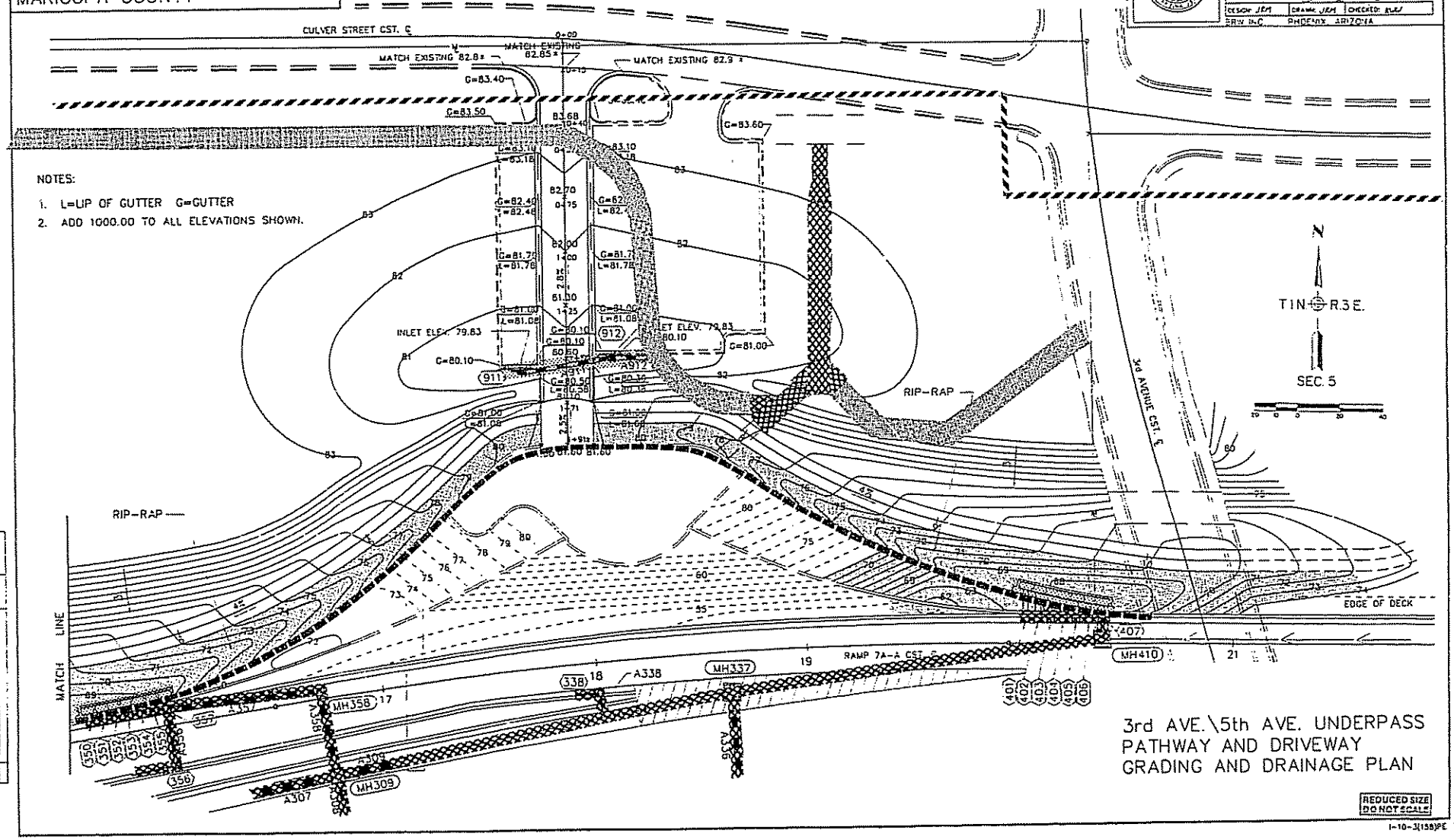
CULVER ST.
DRAINAGE PLAN

SHEET

REVISED 8-3-93

C-16

PHOENIX–CASA GRANDE HIGHWAY
19TH AVENUE - 40TH STREET
MARICOPA COUNTY



NOTES:

1. L=LIP OF GUTTER G=GUTTER
2. ADD 1000.00 TO ALL ELEVATIONS SHOWN.

3rd AVE.\5th AVE. UNDERPASS
PATHWAY AND DRIVEWAY
GRADING AND DRAINAGE PLAN

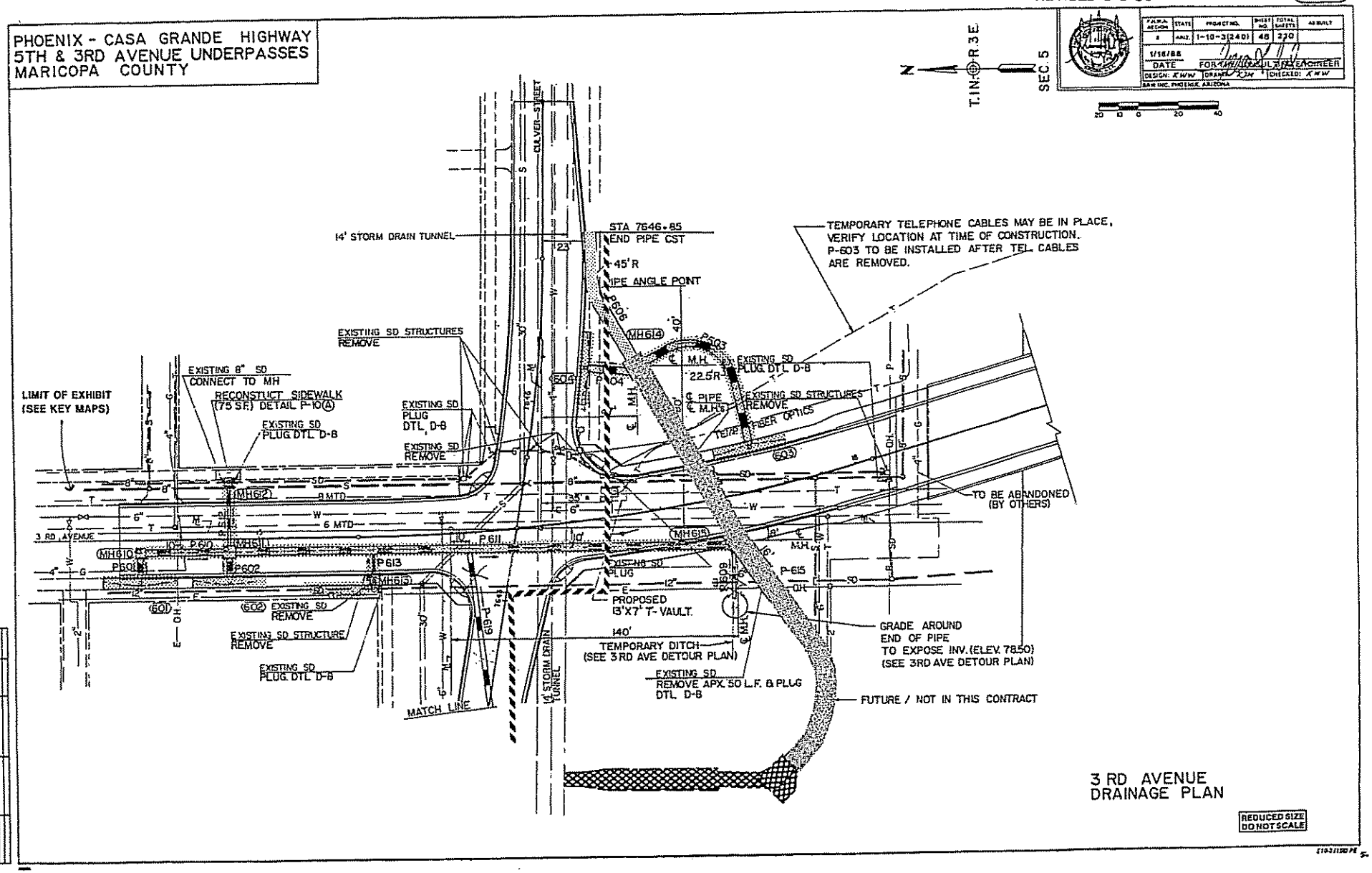
REDUCED SIZE
DO NOT SCALE

I-10-3(158)PE 72

REVISED 8-3-93

C-17

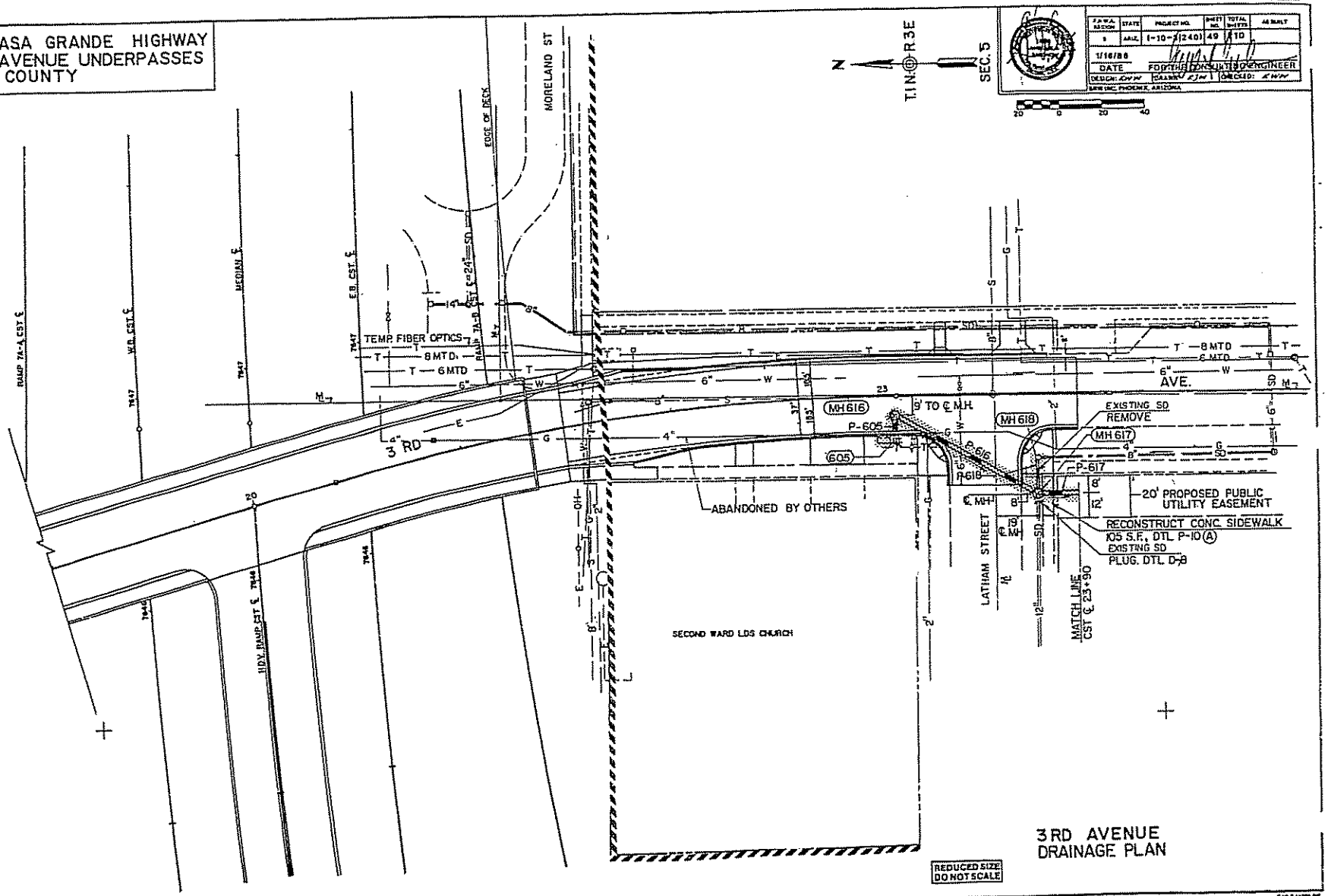
PHOENIX - CASA GRANDE HIGHWAY
5TH & 3RD AVENUE UNDERPASSES
MARICOPA COUNTY



3 RD AVENUE
DRAINAGE PLAN

REDUCED SIZE DO NOT SCALE

PHOENIX - CASA GRANDE HIGHWAY
5TH & 3RD AVENUE UNDERPASSES
MARICOPA COUNTY



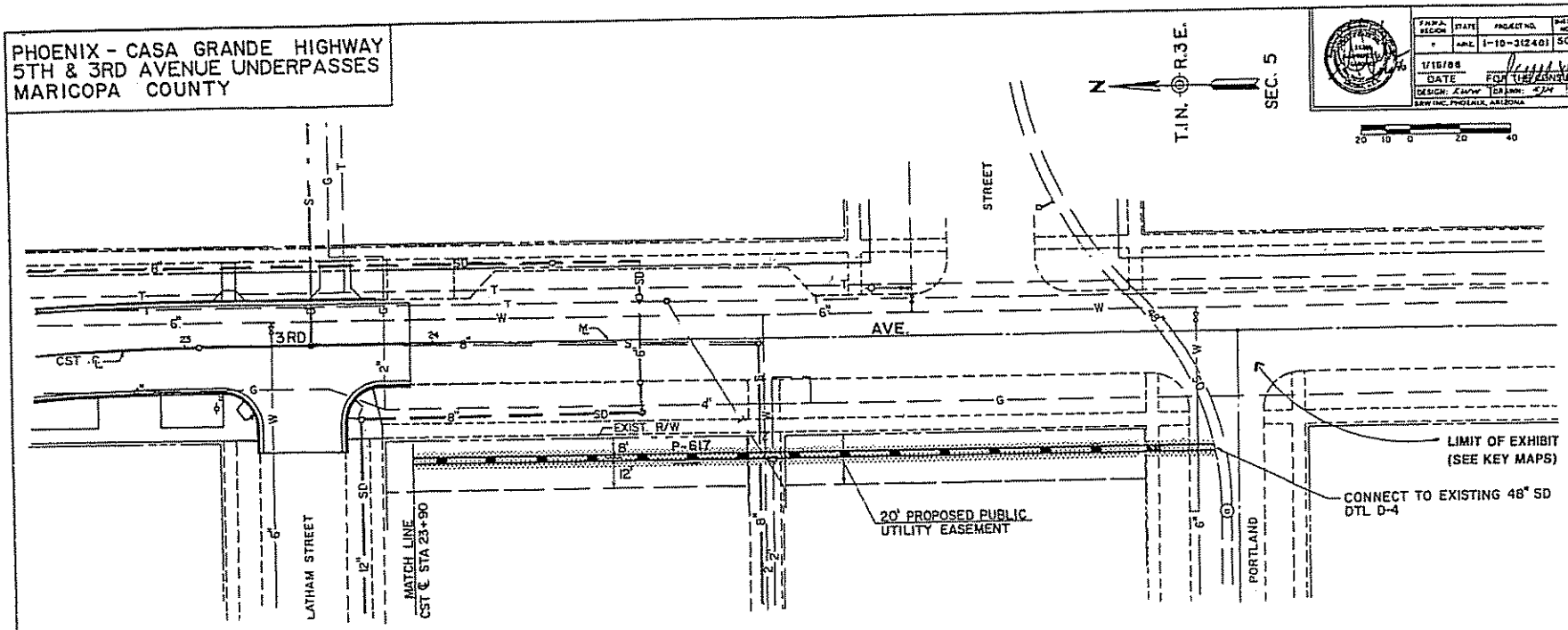
3RD AVENUE
DRAINAGE PLAN

C-19

PHOENIX - CASA GRANDE HIGHWAY
5TH & 3RD AVENUE UNDERPASSES
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(240)	50	230	

1/15/86
DATE FOR THE CONSULTING ENGINEER
DESIGN: KWW DRAWN: KJH CHECKED: KWW
SRW INC. PHOENIX, ARIZONA



3 RD AVENUE
DRAINAGE PLAN

REDUCED SIZE
DO NOT SCALE

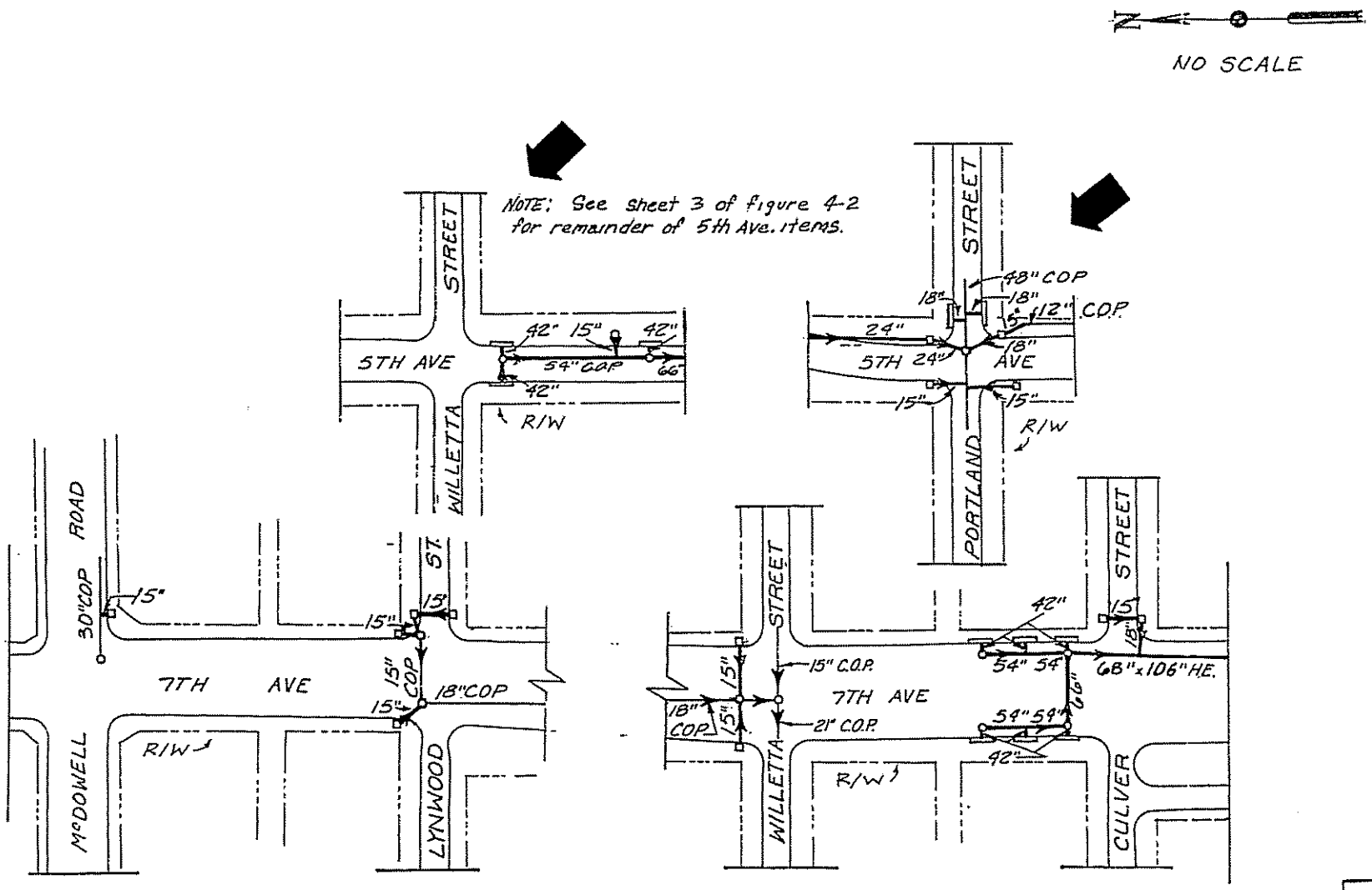


Figure 4-2, Sheet 4
Inner Loop Drainage System
7th Ave and 5th Ave

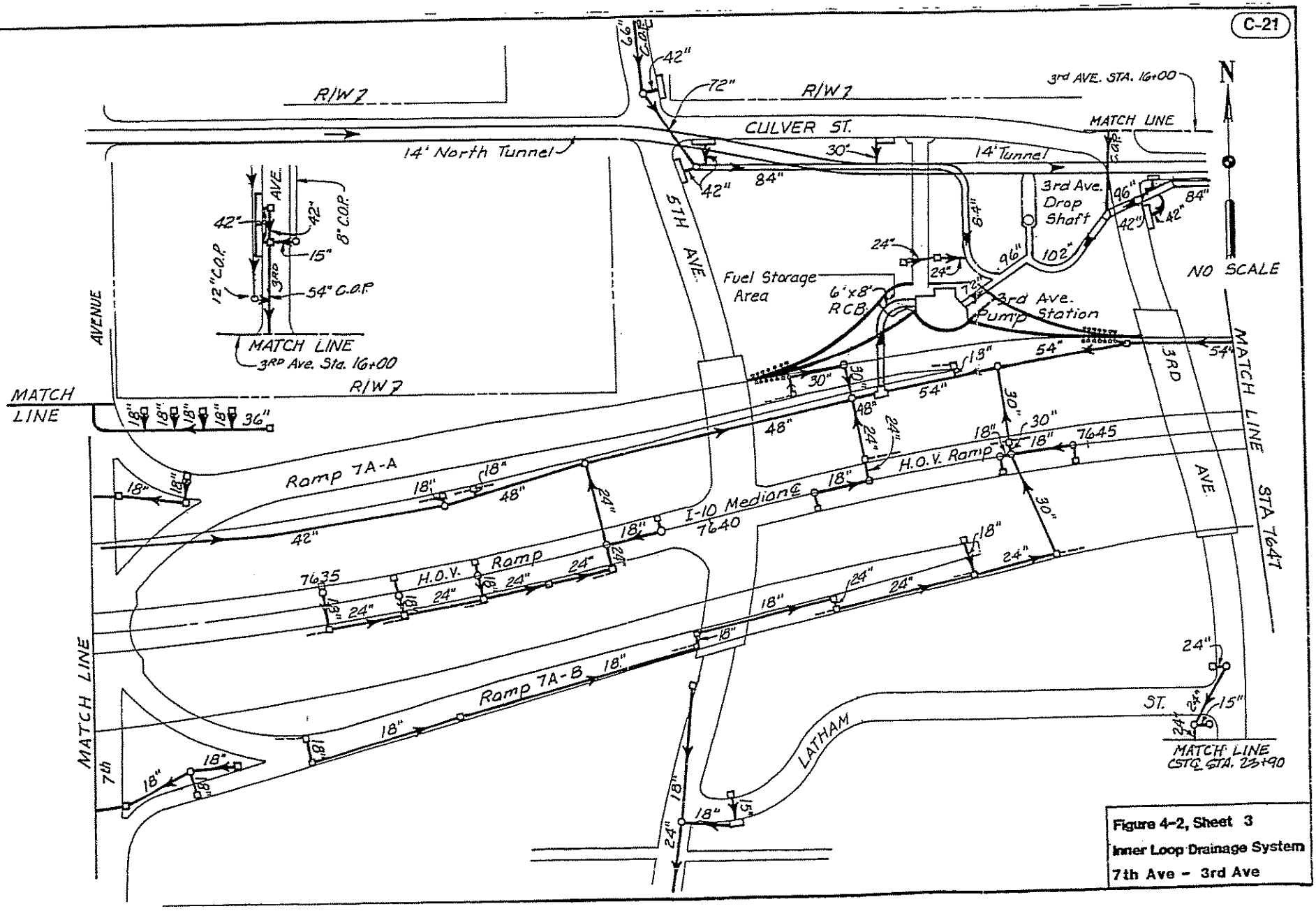


Figure 4-2, Sheet 3
Inner Loop Drainage System
7th Ave - 3rd Ave

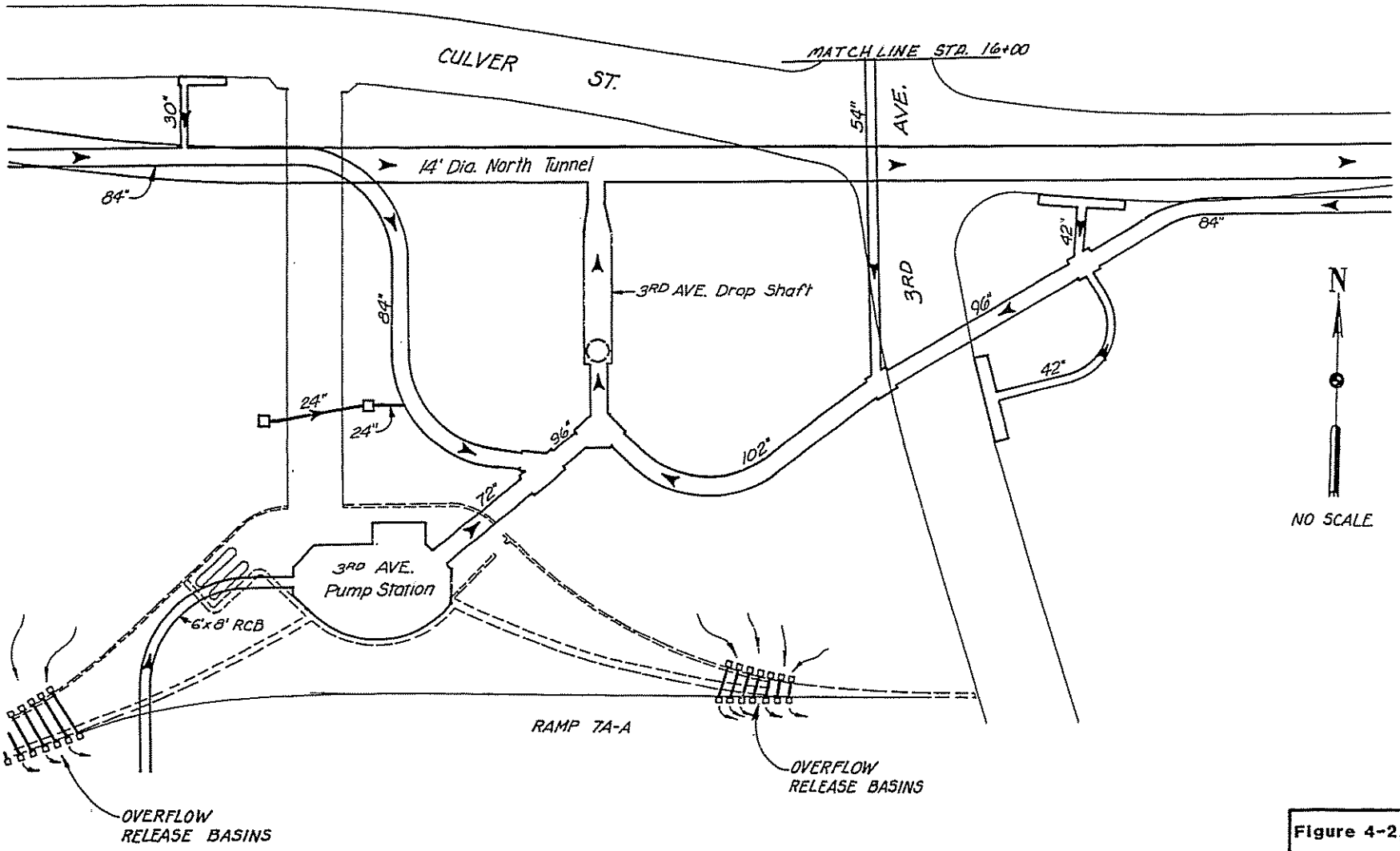
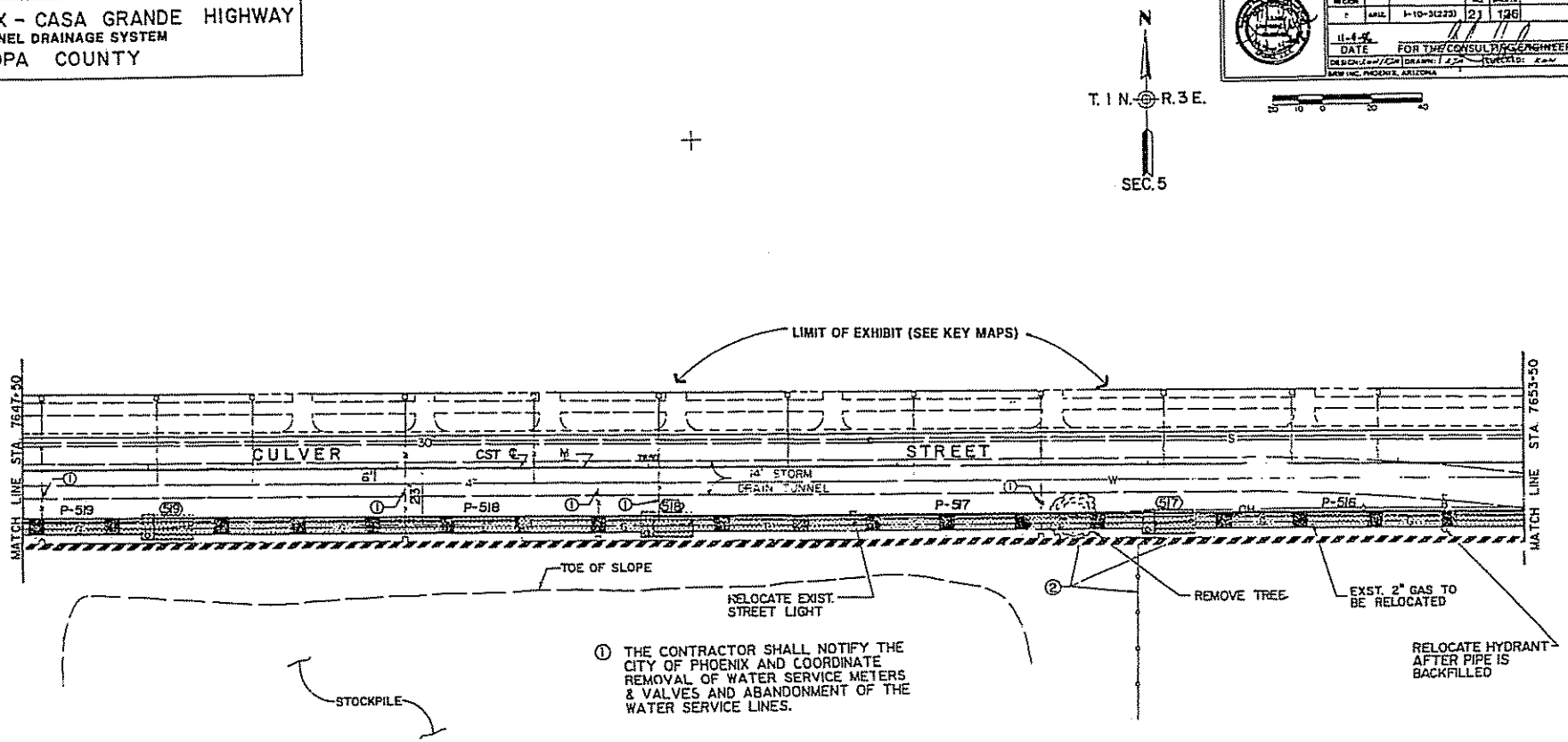


Figure 4-2, Sheet 3 A
Inner Loop Drainage System
7th Ave. - 3rd Ave.

PHOENIX - CASA GRANDE HIGHWAY
WEST TUNNEL DRAINAGE SYSTEM
MARICOPA COUNTY

F.P.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
2	ARIZ.	I-10-3(223)	21	126	

11-4-96
DATE FOR THE CONSULTING ENGINEER
DESIGN: [illegible] DRAWN: [illegible] CHECKED: [illegible]
MW INC. PHOENIX, ARIZONA



① THE CONTRACTOR SHALL NOTIFY THE CITY OF PHOENIX AND COORDINATE REMOVAL OF WATER SERVICE METERS & VALVES AND ABANDONMENT OF THE WATER SERVICE LINES.

② THE CONTRACTOR SHALL REMOVE AND REPLACE OR RELOCATE FENCE AS REQUIRED FOR STORM DRAIN CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE STOCKPILED SOIL AS REQUIRED FOR CONSTRUCTION. THIS WORK SHALL BE COORDINATED WITH THE ENGINEER AND SHALL BE INCIDENTAL TO THE PIPE CONSTRUCTION.

REDUCED SIZE DO NOT SCALE

CULVER STREET
DRAINAGE PLAN

STA. 7647+50 TO STA. 7653+50

REVISED 8-3-93

C-24

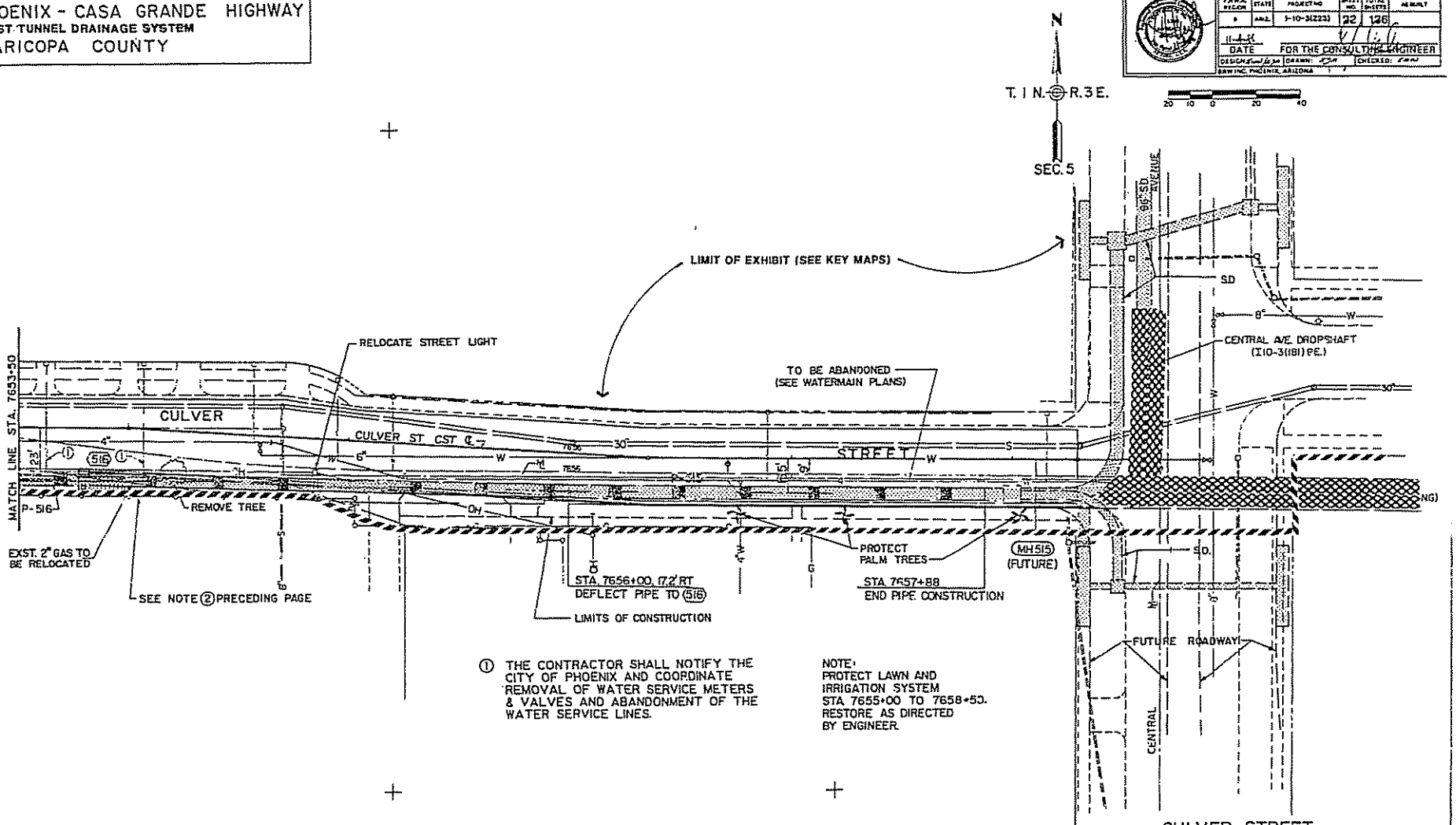
PHOENIX - CASA GRANDE HIGHWAY
WEST TUNNEL DRAINAGE SYSTEM
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(223)	22	126	

DATE FOR THE CONSULTING ENGINEER

DESIGN: DRAWN: CHECKED:

BRW INC. PHOENIX, ARIZONA



① THE CONTRACTOR SHALL NOTIFY THE CITY OF PHOENIX AND COORDINATE REMOVAL OF WATER SERVICE METERS & VALVES AND ABANDONMENT OF THE WATER SERVICE LINES.

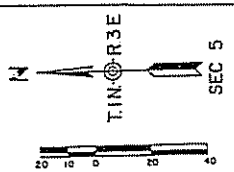
NOTE:
PROTECT LAWN AND IRRIGATION SYSTEM STA 7655+00 TO 7658+50. RESTORE AS DIRECTED BY ENGINEER.

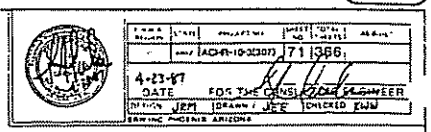
CULVER STREET DRAINAGE PLAN

STA. 7653+50 TO 7657+88

REDUCED SIZE DO NOT SCALE

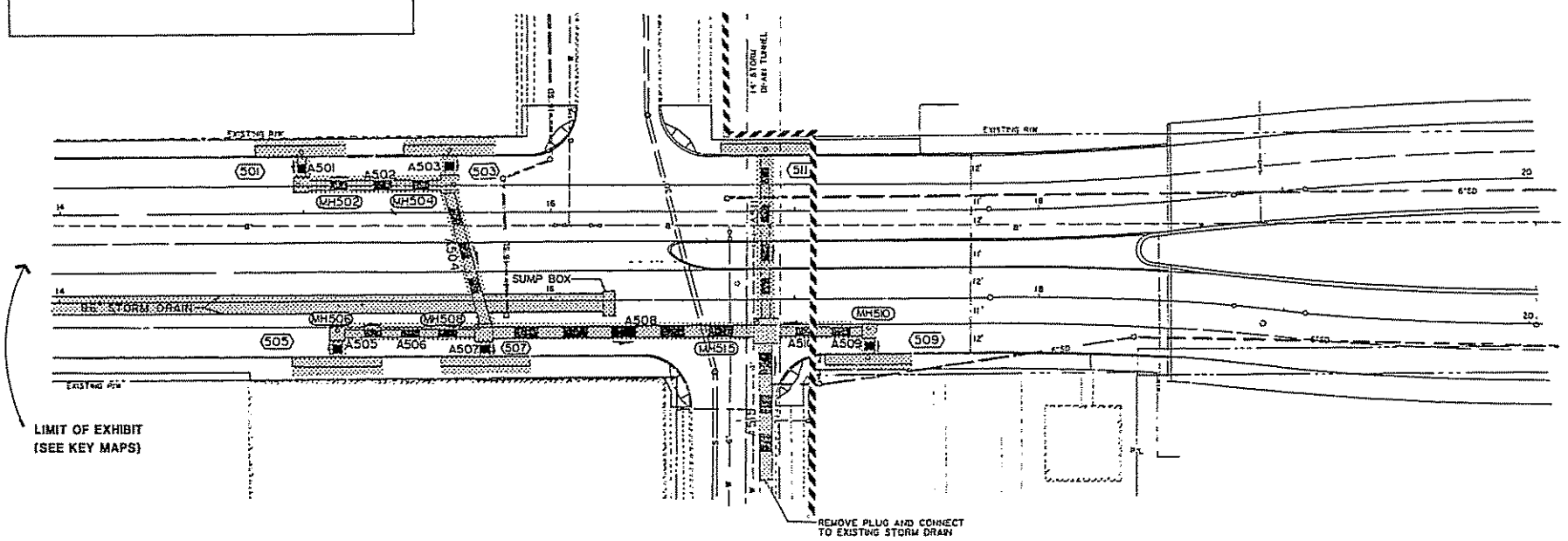
PHOENIX - CASA GRANDE HIGHWAY
CENTRAL AVENUE - 3RD STREET
MARICOPA COUNTY





LEGEND

	Catch Basin	(101)	Catch Basin No.
	Manhole	(MH101)	Manhole No.
	Pipe Run	A101	Pipe Run No.
	Direction of Flow		



CENTRAL AVENUE
DRAINAGE PLAN

STA. 14+00 TO 20+00

REDUCED SIZE
DO NOT SCALE

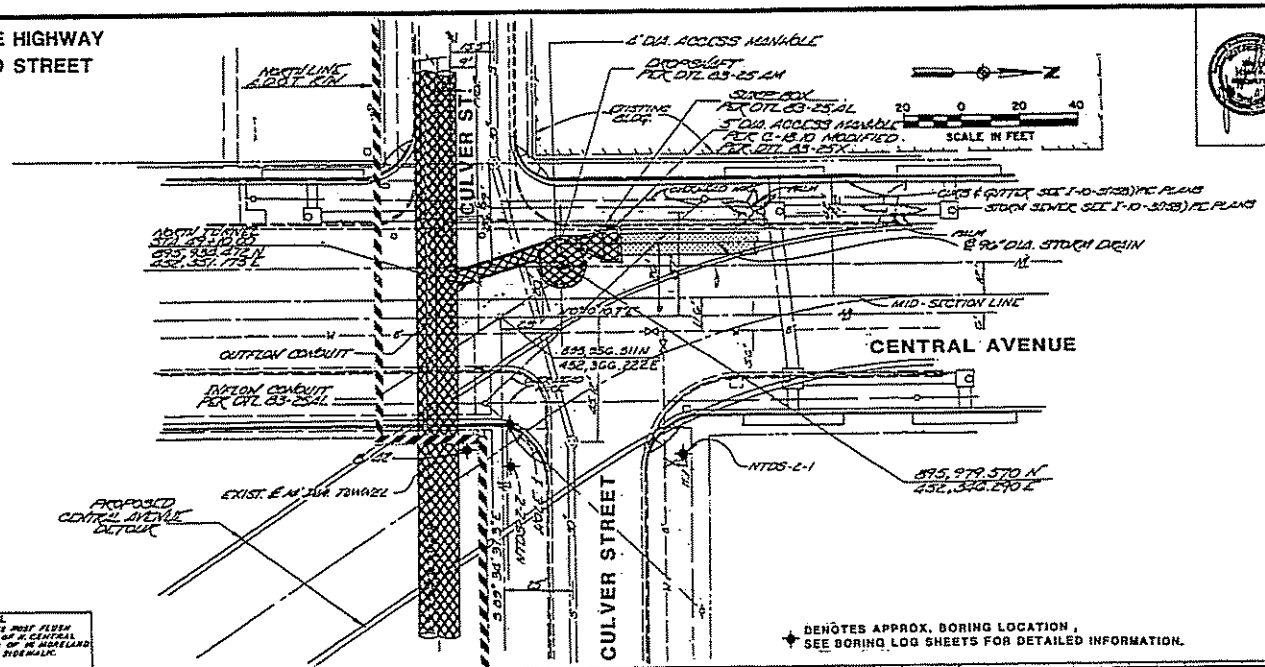
PHOENIX-CASA GRANDE HIGHWAY
CENTRAL AVENUE-3RD STREET
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(307)	100	366	

4-24-87 DATE — FOR THE CONSULTING ENGINEER

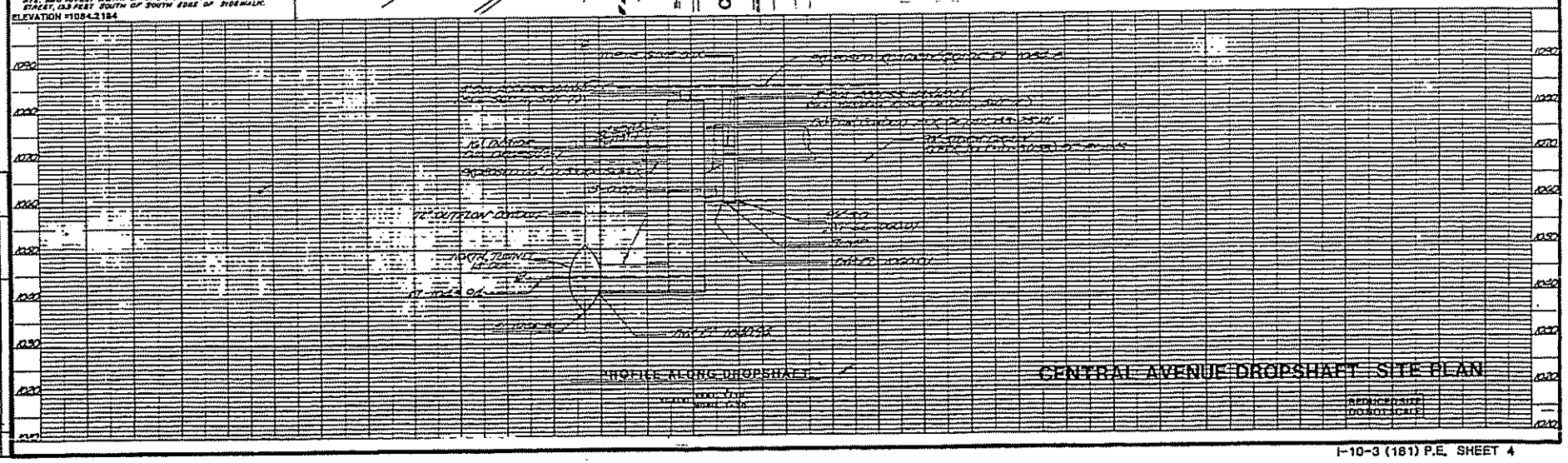
DESIGN J.B. DRAWN E.G. CHECKED W.C.D.

prc PRC Engineering, Inc.



BENCH MARK PT.NO.-CENTRAL
A C.I.G.S. TRAVERSE STATION DISC. IN A CONCRETE POST FLUSH WITH GROUND 36 FEET WEST OF WEST CURB OF N. CENTRAL AVE. AND 10 FEET NORTH OF THE NORTH CURB OF 16 MORELAND STREET, 13.5 FEET SOUTH OF SOUTH EDGE OF SIDEWALK.
ELEVATION =1084.2184

DENOTES APPROX. BORING LOCATION, SEE BORING LOG SHEETS FOR DETAILED INFORMATION.

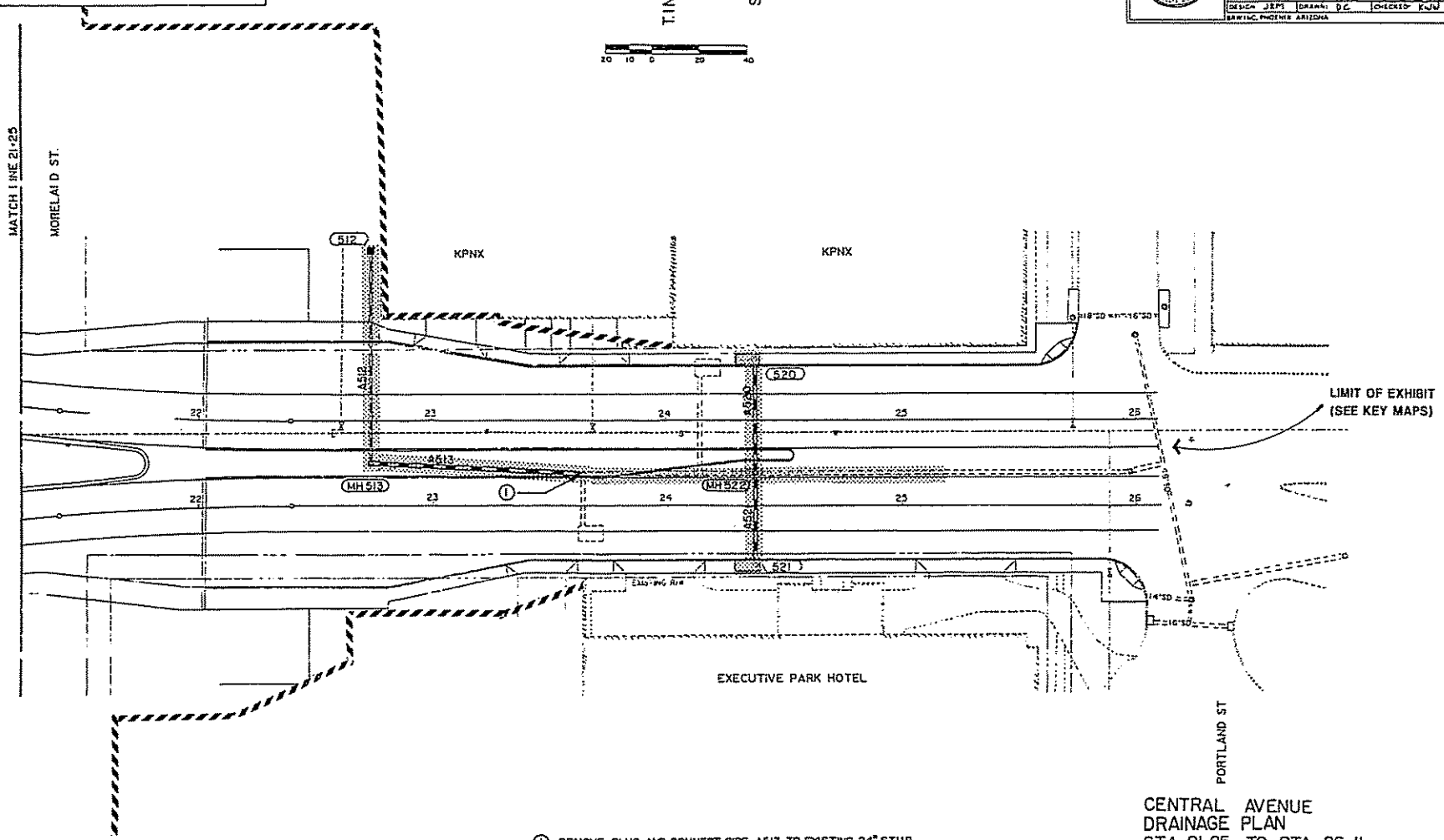


NO.	REVISIONS	BY	DATE

PHOENIX - CASA GRANDE HIGHWAY
CENTRAL AVENUE - 3RD STREET
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	ACHR-10-X(307)	72	366	

4-21-97
DATE FOR THE CONSULTING ENGINEER
DESIGN JRPS DRAWN: DC CHECKED: KJW
DRAWING: PHOENIX ARIZONA



① REMOVE PLUG AND CONNECT PIPE A513 TO EXISTING 24" STUB. USE PIPE COLLAR FOR SKEWED CONNECTION AS PER PROJECT STD. DTL. D-4.

CENTRAL AVENUE
DRAINAGE PLAN
STA. 21+25 TO STA. 26+11

REDUCED SIZE
DO NOT SCALE

SURVEY BOX	SHEET PLANS	REVISIONS	LOCATION	DATE

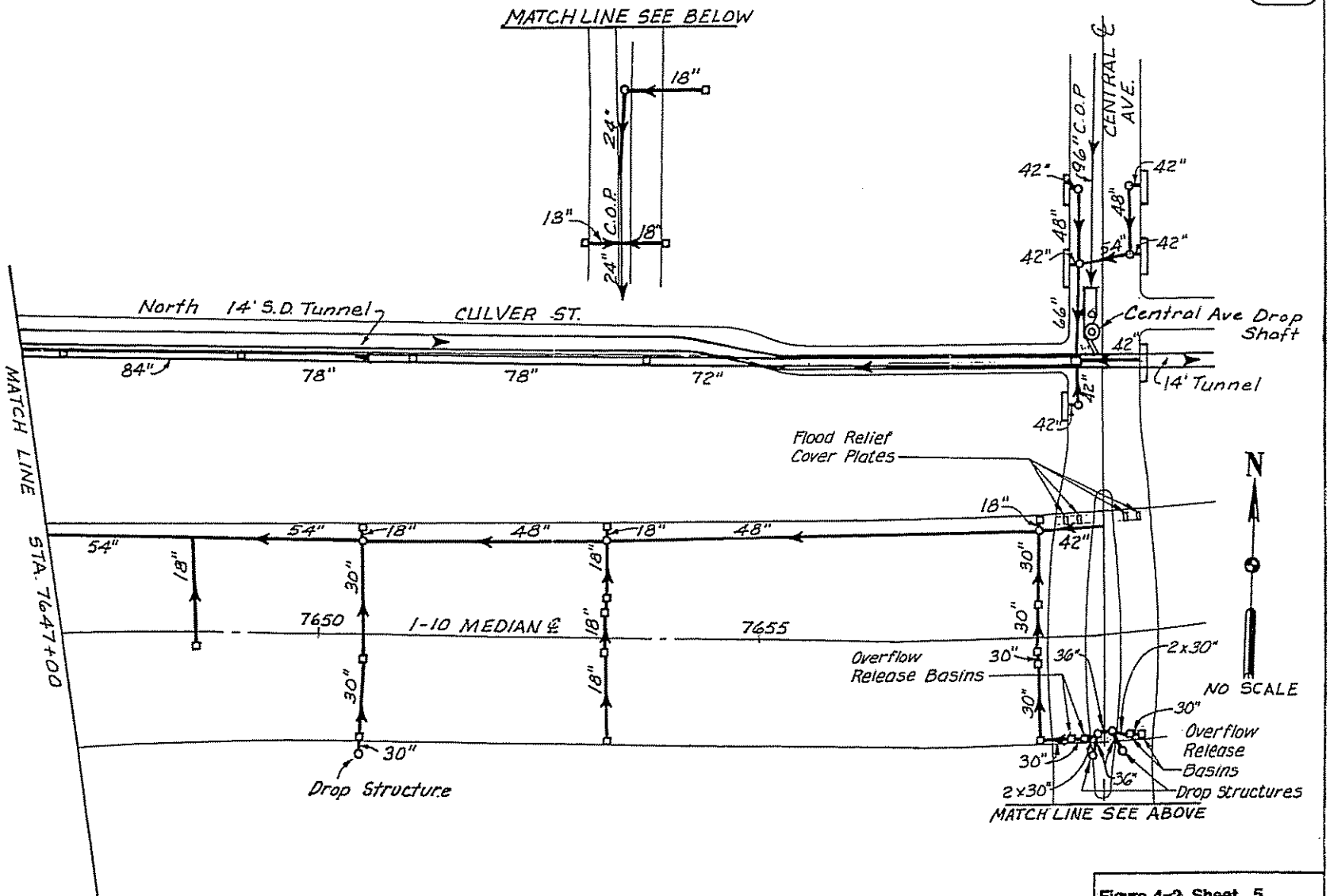


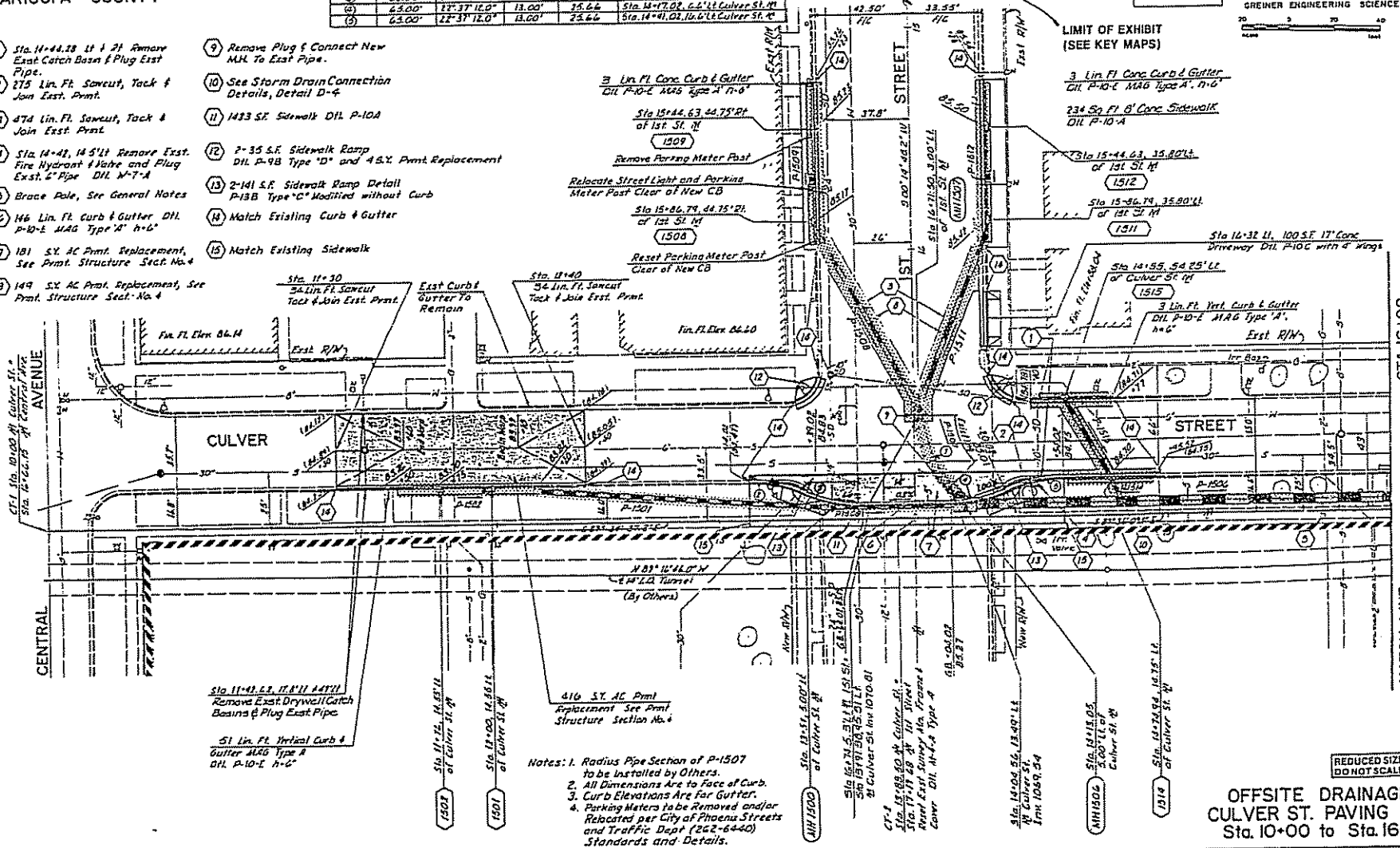
Figure 4-2, Sheet 5
Inner Loop Drainage System
3rd Ave – Central Ave

PHOENIX - CASA GRANDE HIGHWAY
CENTRAL AVE. TO 3RD ST.
MARICOPA COUNTY

CURVE DATA

Curve No.	Radius	Delta	Tangent	Length	PI Station
(1)	45.00'	45°00'00.0"	18.64'	35.34	Sta. 13+91.43, 14.64' Lt. Culver St. ℄
(2)	65.00'	22° 37' 12.0"	13.00'	25.66	Sta. 13+27.02, 16.6' Lt. Culver St. ℄
(3)	65.00'	22° 37' 12.0"	13.00'	25.66	Sta. 13+51.02, 6.6' Lt. Culver St. ℄
(4)	65.00'	22° 37' 12.0"	13.00'	25.66	Sta. 14+17.02, 6.6' Lt. Culver St. ℄
(5)	65.00'	22° 37' 12.0"	13.00'	25.66	Sta. 14+41.02, 16.6' Lt. Culver St. ℄

(1) Sta. 14+44.28 Lt & 21 Remove Exist. Catch Basin & Plug Exist Pipe.
(2) 275 Lin. Ft. Sawcut, Tack & Join Exist. Pmnt.
(3) 474 Lin. Ft. Sawcut, Tack & Join Exist. Pmnt.
(4) Sta. 14+42, 14.5' Lt Remove Exist. Fire Hydrant & Valve and Plug Exist. 6" Pipe Dtl. W-7-A
(5) Brace Pole, See General Notes
(6) 146 Lin. Ft. Curb & Gutter Dtl. P-10-E MAG Type "A" h=6"
(7) 181 S.Y. AC Pmnt. Replacement, See Pmnt. Structure Sect. No. 4
(8) 149 S.Y. AC Pmnt. Replacement, See Pmnt. Structure Sect. No. 4
(9) Remove Plug & Connect New M.H. To Exist Pipe.
(10) See Storm Drain Connection Details, Detail D-4
(11) 1433 S.F. Sidewalk Dtl. P-10A
(12) 2-35 S.F. Sidewalk Ramp Dtl. P-98 Type "D" and 4 S.Y. Pmnt. Replacement
(13) 2-141 S.F. Sidewalk Ramp Detail P-138 Type "C" Modified without Curb
(14) Match Existing Curb & Gutter
(15) Match Existing Sidewalk



Notes:
1. Radius Pipe Section of P-1507 to be Installed by Others.
2. All Dimensions Are to Face of Curb.
3. Curb Elevations Are For Gutter.
4. Parking Meters to be Removed and/or Relocated per City of Phoenix Streets and Traffic Dept (262-6440) Standards and Details.

REDUCED SIZE DO NOT SCALE

GREINER ENGINEERING SCIENCES, INC.

FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ACM-IM-10-3(071)	73	1366	

DATE: FOR THE ASSISTANT DIRECTOR ENGINEER
DESIGN: U.F. DRAWN: A.S. CHECKED: G.B.

OFFSITE DRAINAGE & CULVER ST. PAVING PLAN
Sta. 10+00 to Sta. 16+00

PHOENIX - CASA GRANDE HIGHWAY
CENTRAL AVE. TO 3RD ST.
MARICOPA COUNTY

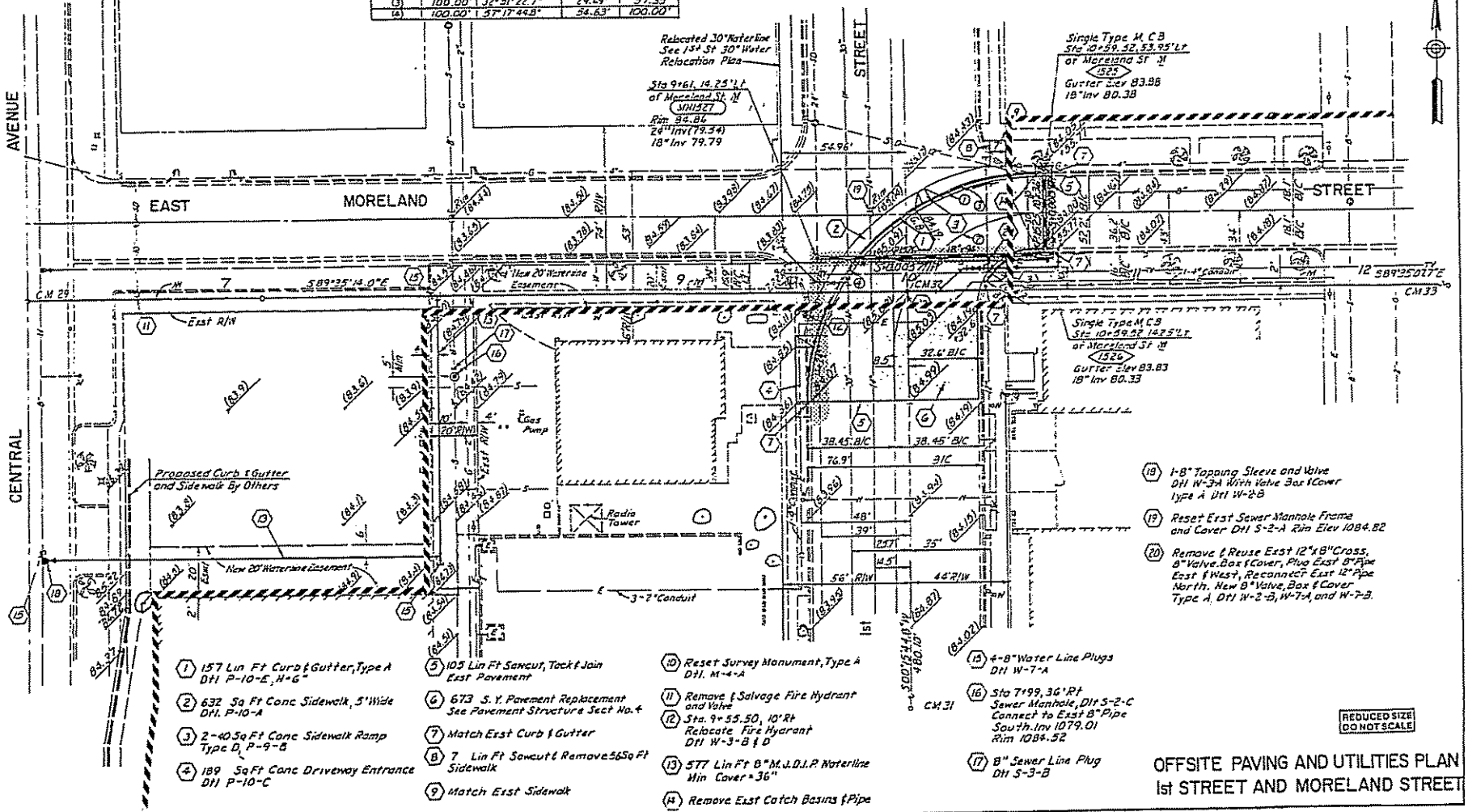
All dimensions are to face of curb unless noted otherwise.
Curb elevations are for gutter.

Curve No.	Radius	Delta	Tangent	Length
(1)	100.00'	90°09'07.3"	100.27'	157.35'
(2)	63.00'	90°09'07.5"	63.17'	99.13'
(3)	100.00'	32°31'22.7"	29.69'	57.35'
(4)	100.00'	57°17'44.8"	54.63'	100.00'

F.A.P. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
1	ARIZ.	ACI-8-(10-303)071	75	366	

4/24/87 — DATE — FOR THE CONSULTING ENGINEER
DESIGN: L.J.H. — DRAWN: F.E.I./L.J.H. — CHECKED: P.H.I./D.C.

GREINER ENGINEERING SCIENCES, INC.



(1) 157 Lin Ft Curb & Gutter, Type A Dtl P-10-E, H=6"

(2) 632 Sq Ft Conc Sidewalk, 5' Wide Dtl. P-10-A

(3) 2-40 Sq Ft Conc Sidewalk Ramp Type D, P-9-B

(4) 189 Sq Ft Conc Driveway Entrance Dtl P-10-C

(5) 105 Lin Ft Sawcut, Tack & Join East Pavement

(6) 673 S. Y. Pavement Replacement See Pavement Structure Sect No. 4

(7) Match East Curb & Gutter

(8) 7 Lin Ft Sawcut & Remove 56 Sq Ft Sidewalk

(9) Match East Sidewalk

(10) Reset Survey Monument, Type A Dtl. M-4-A

(11) Remove & Salvage Fire Hydrant and Valve

(12) Sta. 9+55.50, 10' Rt Relocate Fire Hydrant Dtl W-3-B & D

(13) 577 Lin Ft 8" M.J.D.I.P. Waterline Min Cover = 36"

(14) Remove East Catch Basins & Pipe

(15) 4-8" Water Line Plugs Dtl W-7-A

(16) Sta 7+99, 36' Rt Sewer Manhole, Dtl S-2-C Connect to East 8" Pipe South. Inv 1079.01 Rim 1084.52

(17) 8" Sewer Line Plug Dtl S-3-B

(18) 1-8" Tapping Sleeve and Valve Dtl W-3A With Valve Box & Cover Type A Dtl W-2-B

(19) Reset East Sewer Manhole Frame and Cover Dtl S-2-A Rim Elev 1084.82

(20) Remove & Reuse East 12"x8" Cross, 8" Valve, Box & Cover, Plug East 8" Pipe East & West, Reconnect East 12" Pipe North. New 8" Valve, Box & Cover Type A, Dtl W-2-B, W-7-A, and W-7-B.

REDUCED SIZE DO NOT SCALE

OFFSITE PAVING AND UTILITIES PLAN
1st STREET AND MORELAND STREET

PHOENIX - CASA GRANDE HIGHWAY
CENTRAL AVE. TO 3RD ST.
MARICOPA COUNTY

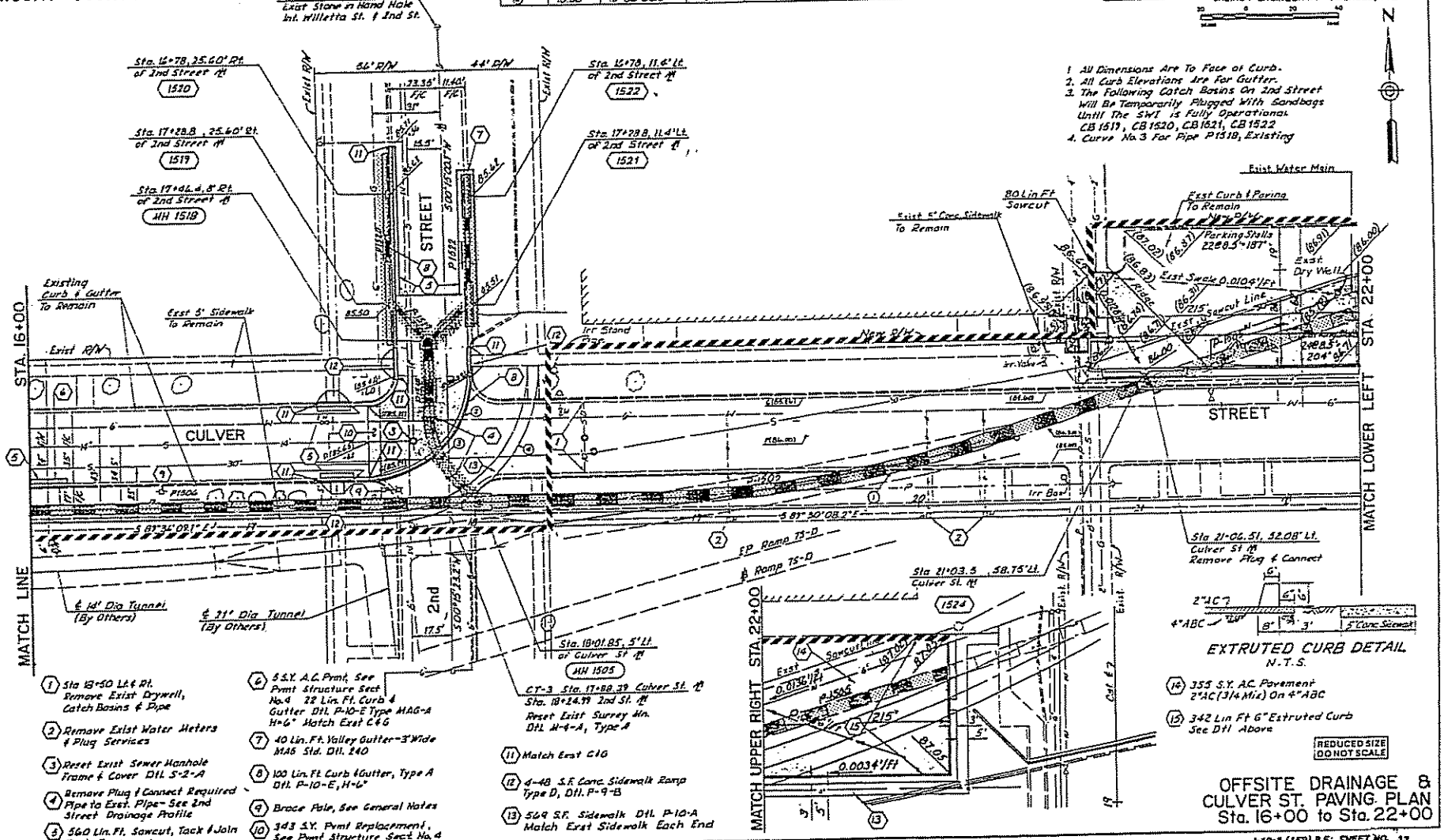
CURVE DATA

Curve No.	Radius	Delta	Tangent	Length	Remarks
(1)	540.00'	17°01' 21.6"	80.81	160.45'	Sta. 19+50.74, 5.00' Lt. Culver St. ℄
(2)	47.00'	90°00'00.0"	47.00	73.83'	
(3)	45.00'	45°00'00.0"	18.64'	35.34'	P.T. Sta. 17+80.32, 26.39' Lt.
(4)	70.00'	90°00'00.0"	70.00'	109.96'	

FEDERAL RECORD	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ACI-16-(-3)313(1)	74	368	

Author
DATE
FOR THE CONSULTING ENGINEER
DESIGNED J.F. DRAWN J.S. CHECKED J.S.

GREINER ENGINEERING SCIENCES, INC.



1. All Dimensions Are To Face of Curb.
2. All Curb Elevations Are For Gutter.
3. The Following Catch Basins On 2nd Street Will Be Temporarily Plugged With Sandbags Until The SWI is Fully Operational.
   CB 1519, CB 1520, CB 1521, CB 1522
4. Curve No. 3 For Pipe P1518, Existing

(1) Sta 13+50 Lt. & Rt. Remove Exist Drywell, Catch Basins & Pipe

(2) Remove Exist Water Meters & Plug Services

(3) Reset Exist Sewer Manhole Frame & Cover Dtl. S-2-A

(4) Remove Plug & Connect Required Pipe to Exist. Pipe - See 2nd Street Drainage Profile

(5) 560 Lin. Ft. Sawcut, Tack & Join Exist Pavement

(6) 5 S.Y. A.C. Pvmt, See Pvmt Structure Sect No. 4 28 Lin. Ft. Curb & Gutter Dtl. P-10-E Type MAG-A H=6" Match Exist C&G

(7) 40 Lin. Ft. Valley Gutter - 3' Wide MAG Std. Dtl. 240

(8) 100 Lin. Ft. Curb & Gutter, Type A Dtl. P-10-E, H=6"

(9) Brace Pole, See General Notes

(10) 343 S.Y. Pvmt Replacement, See Pvmt Structure Sect. No. 4

(11) Match Exist C&G

(12) 4-48 S.F. Conc. Sidewalk Ramp Type D, Dtl. P-9-B

(13) 564 S.F. Sidewalk Dtl. P-10-A Match Exist Sidewalk Each End

(14) 355 S.Y. A.C. Pavement 2"AC (3/4 Mix) On 4" ABC

(15) 342 Lin Ft 6" Extruted Curb See Dtl Above

OFFSITE DRAINAGE & CULVER ST. PAVING PLAN
Sta. 16+00 to Sta. 22+00

P-10-3 (159) P.E. SHEET NO. 33

PHOENIX - CASA GRANDE HIGHWAY
3rd STREET UNDERPASS
MARICOPA COUNTY

FINAL PLAN	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(213)	23	235	

DATE: FOR THE CONSULTING ENGINEER
DESIGN: K.N. DRAWN: S.G. CHECKED: G.B./K.G.

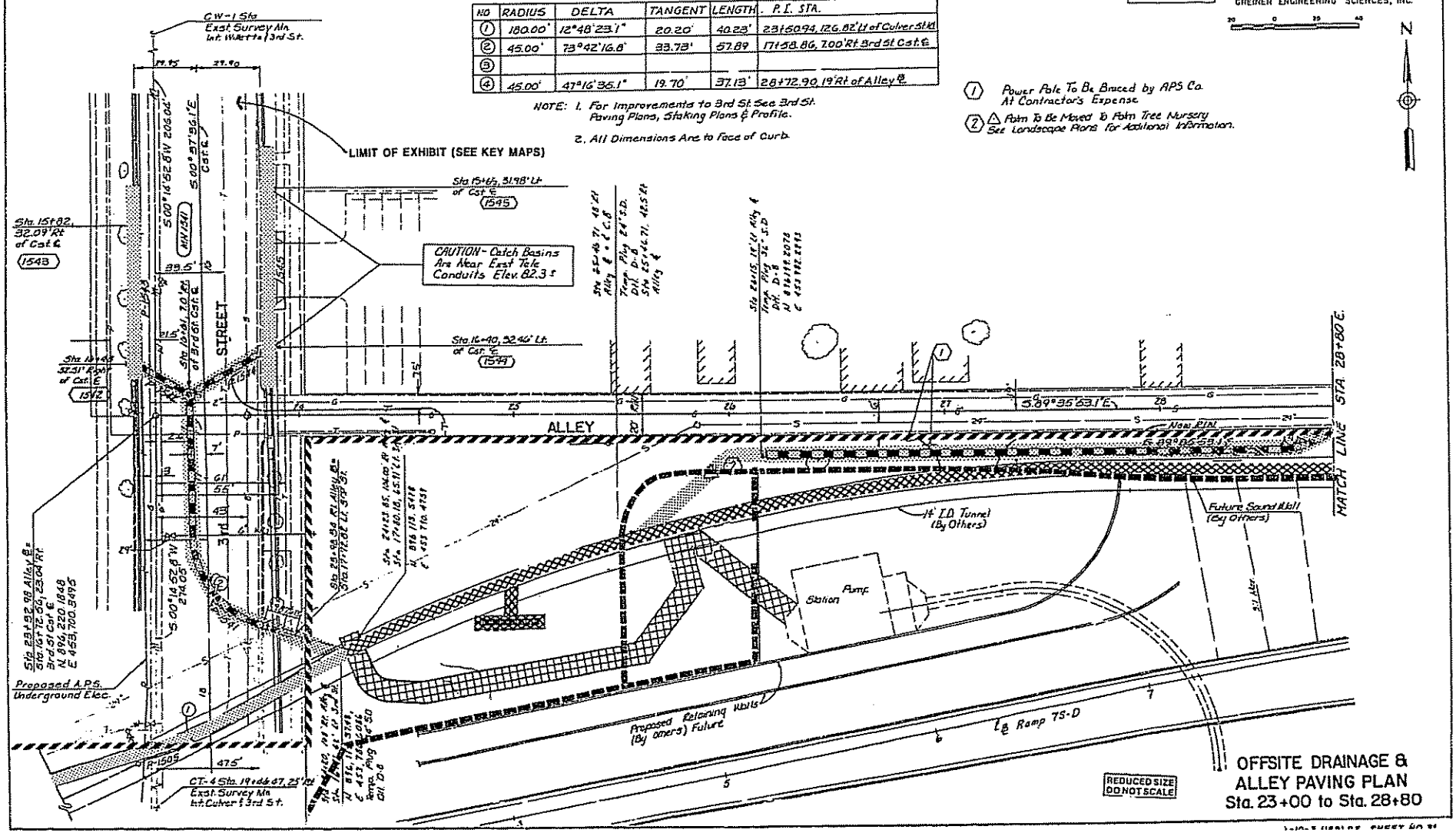
GREINER ENGINEERING SCIENCES, INC.

CURVE DATA

NO	RADIUS	DELTA	TANGENT	LENGTH	P.I. STA.
1	180.00'	12°48'23.1"	20.20'	40.23'	23+60.94, 126.82' Lt of Culver St. ℄
2	45.00'	73°42'16.8"	33.73'	57.89	17+58.86, 7.00' Rt 3rd St Cst ℄
3					
4	45.00'	47°16'36.1"	19.70'	37.13'	28+72.90, 19' Rt of Alley ℄

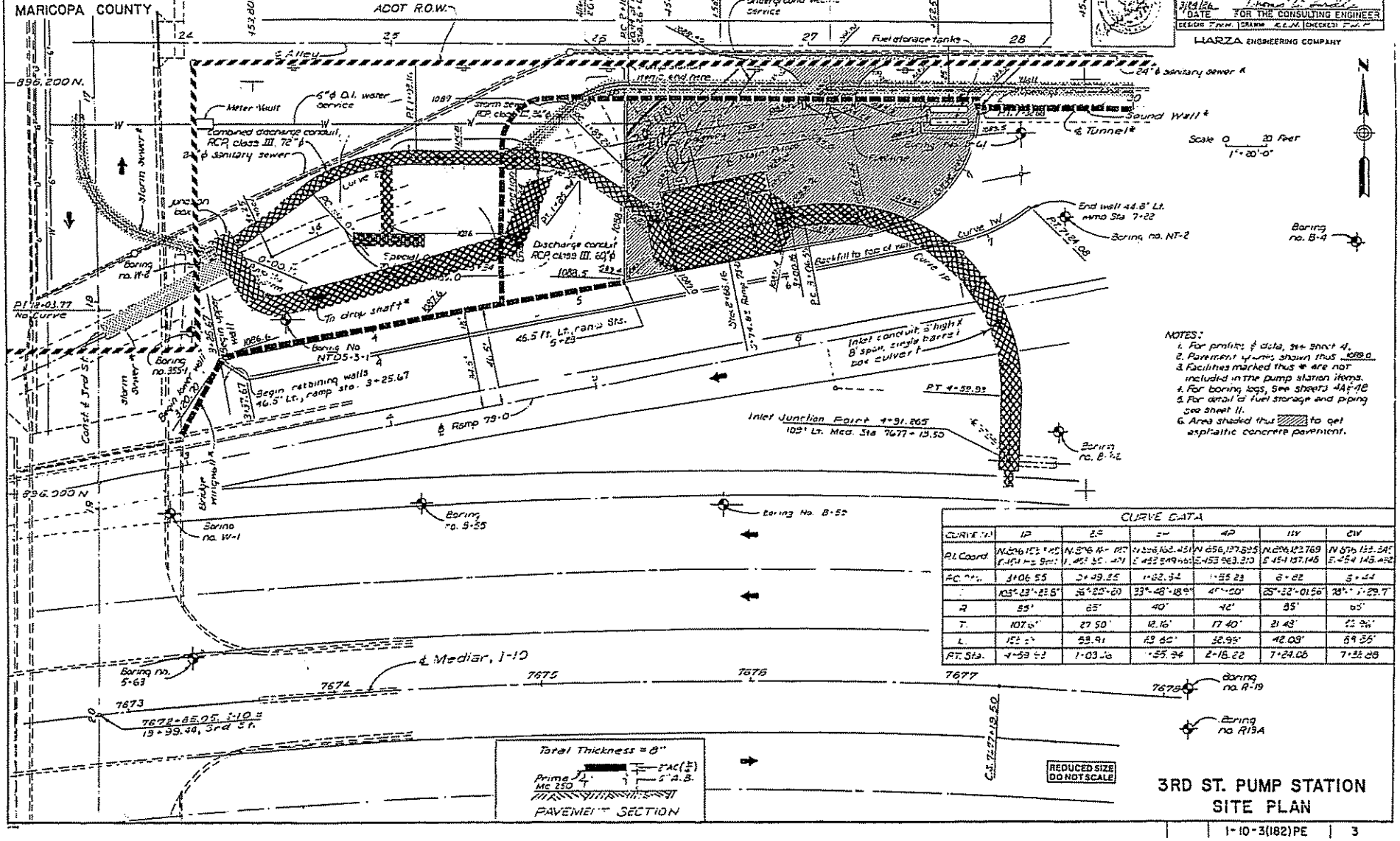
NOTE: 1. For Improvements to 3rd St. See 3rd St. Paving Plans, Staking Plans & Profile.
2. All Dimensions Are to Face of Curb.

(1) Power Pole To Be Braced by APS Co. At Contractor's Expense.
(2) △ Palm To Be Moved To Palm Tree Nursery See Landscape Plans for Additional Information.



OFFSITE DRAINAGE & ALLEY PAVING PLAN
Sta. 23+00 to Sta. 28+80

PHOENIX-CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY



NOTES:
1. For profile & data, see sheet 4.
2. Pertinent grades shown thus 1089.0
3. Facilities marked thus * are not included in the pump station items.
4. For boring logs, see sheets 4A & 4B
5. For detail of fuel storage and piping see sheet 11.
6. Area shaded thus ▨ to get asphaltic concrete pavement.

CURVE DATA

CURVE NO.	1P	2S	2P	4P	1W	2W
P.I. Coord.	N 656,161.[illegible] E 451.[illegible]	N 656,16[illegible] E 451.[illegible]	N 656,162.451 E 453.549	N 656,197.895 E 453.963.310	N 656,162.769 E 454.157.146	N 656,132.24[illegible] E 454.145.482
P.C. Sta.	3+06.55	3+49.25	1+82.34	1+55.23	6+82	5+44
Δ	103°-13'-23.5"	36°-20'-00"	33°-48'-18.9"	47°-00'	25°-32'-01.56"	78°-[illegible]'-29.7"
R	55'	85'	40'	40'	85'	85'
T.	107.[illegible]'	27.50'	12.16'	17.40'	21.43'	[illegible]
L.	15[illegible]	53.91	23.85'	32.95'	42.09'	69.35'
P.T. Sta.	4+59.[illegible]	1+03.[illegible]	1+55.34	2+16.22	7+24.06	7+[illegible].28

HARZA ENGINEERING COMPANY

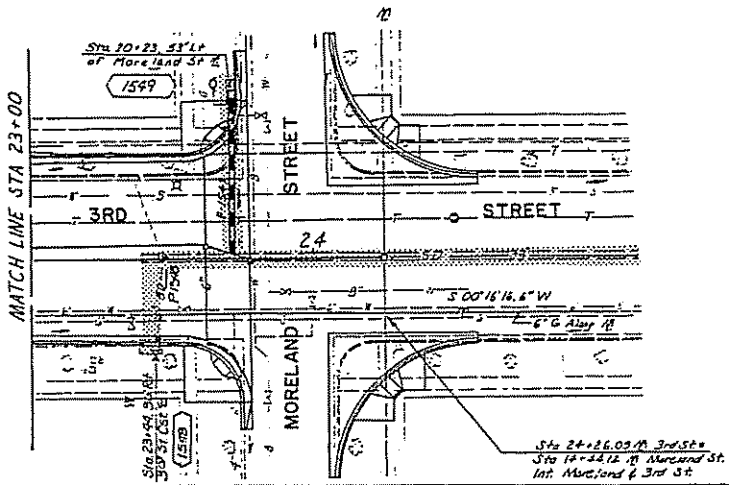
DATE 3/24/86 FOR THE CONSULTING ENGINEER

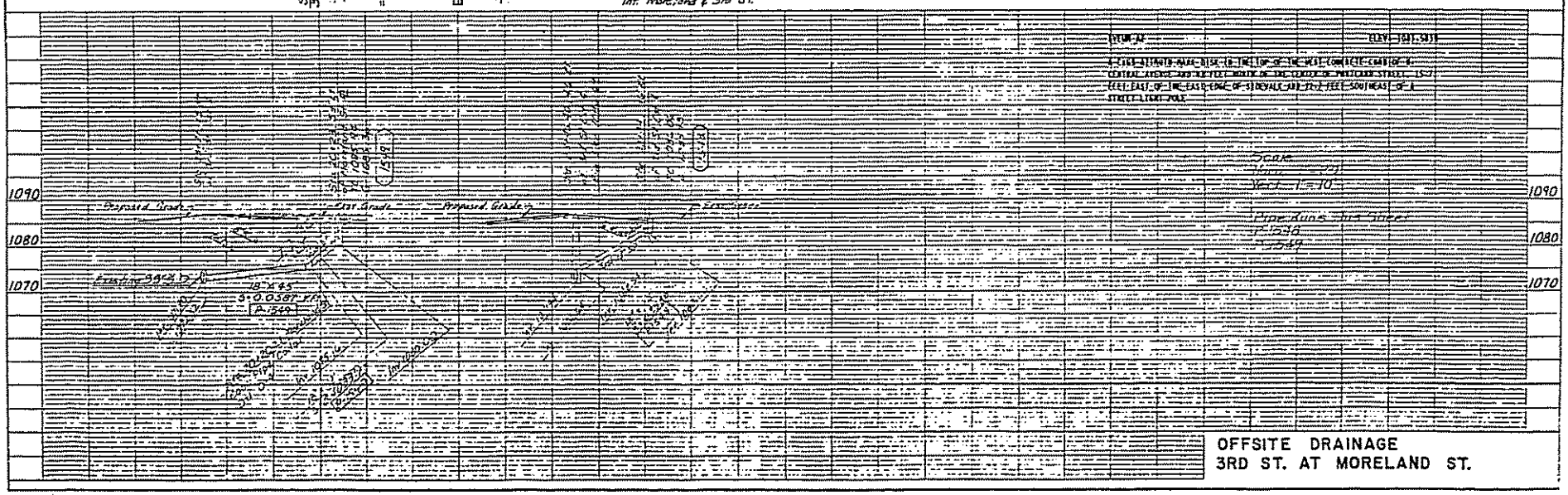
3RD ST. PUMP STATION SITE PLAN

PHOENIX - CASA GRANDE HIGHWAY
3rd STREET UNDERPASS
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(213)	24	235	

DATE 8/8/85 — FOR THE CONSULTING ENGINEER
DESIGN: FS CV DRAWN: SC CHECKED: GB/RB
GREINER ENGINEERING SCIENCES, INC.

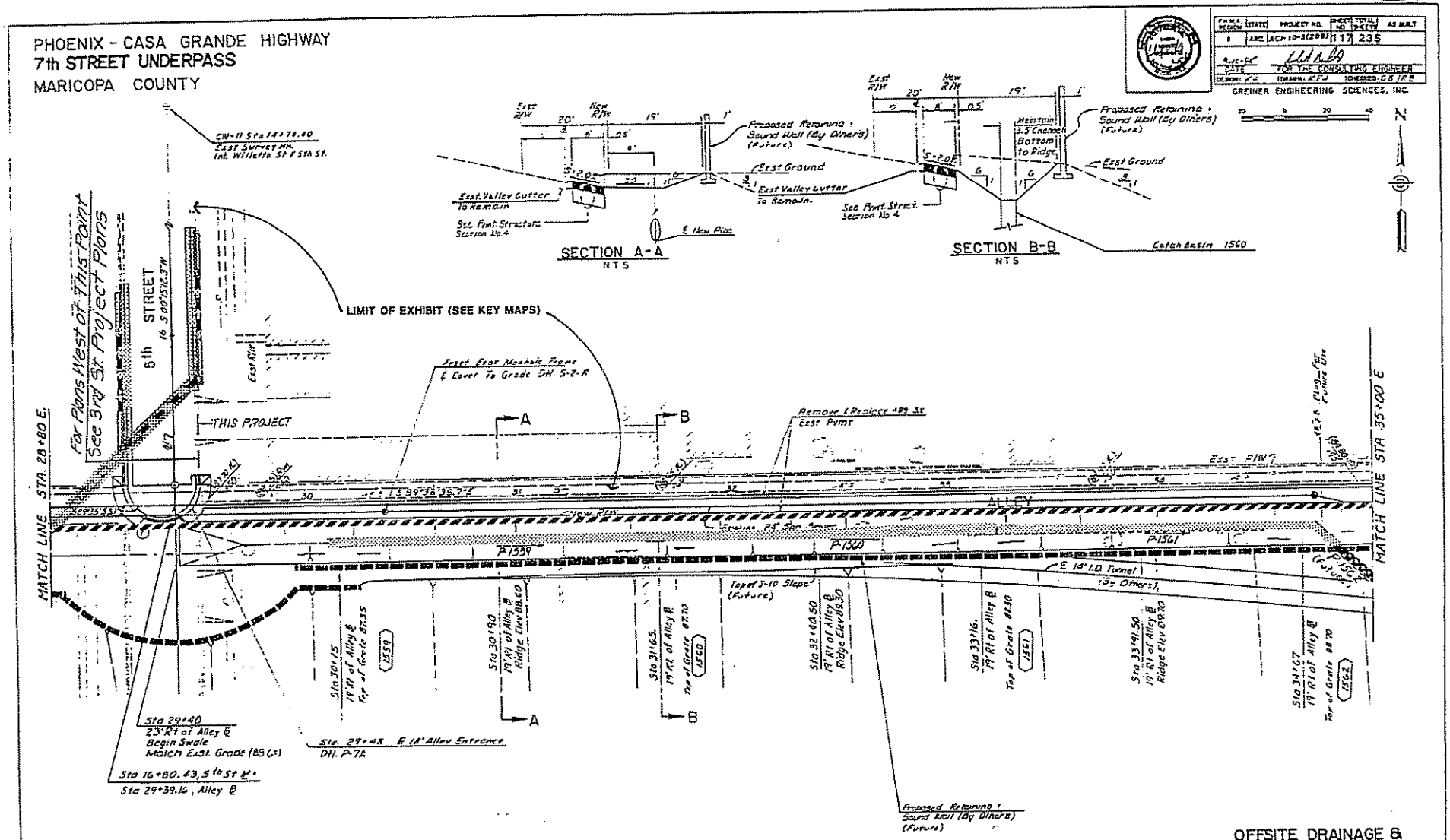




OFFSITE DRAINAGE
3RD ST. AT MORELAND ST.

REDUCED SIZE DO NOT SCALE

PHOENIX - CASA GRANDE HIGHWAY
7th STREET UNDERPASS
MARICOPA COUNTY



OFFSITE DRAINAGE & ALLEY PAVING PLAN
Sta. 28+80 to Sta. 35+00

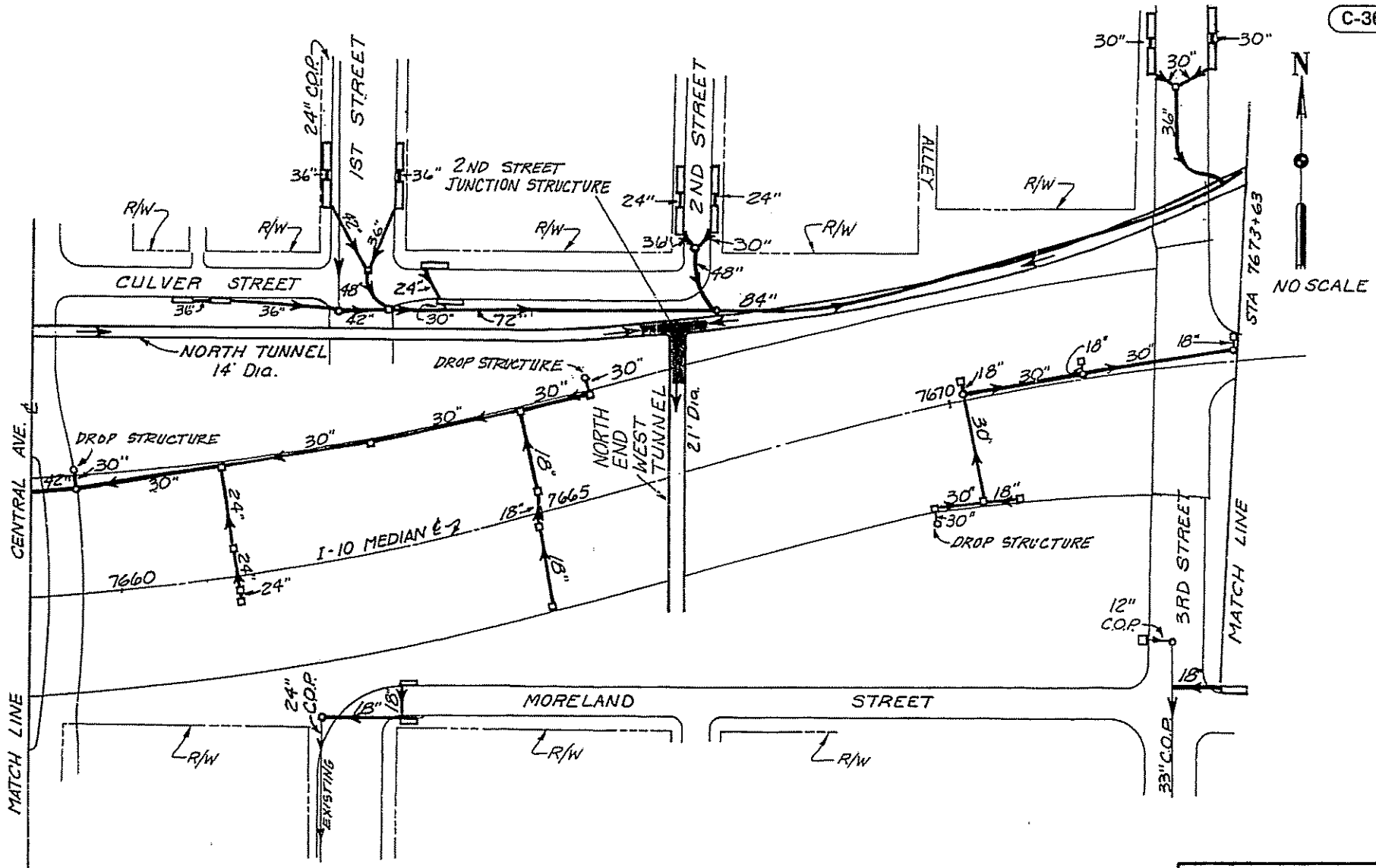


Figure 4-2, Sheet 6
Inner Loop Drainage System
Central Ave - 3rd St

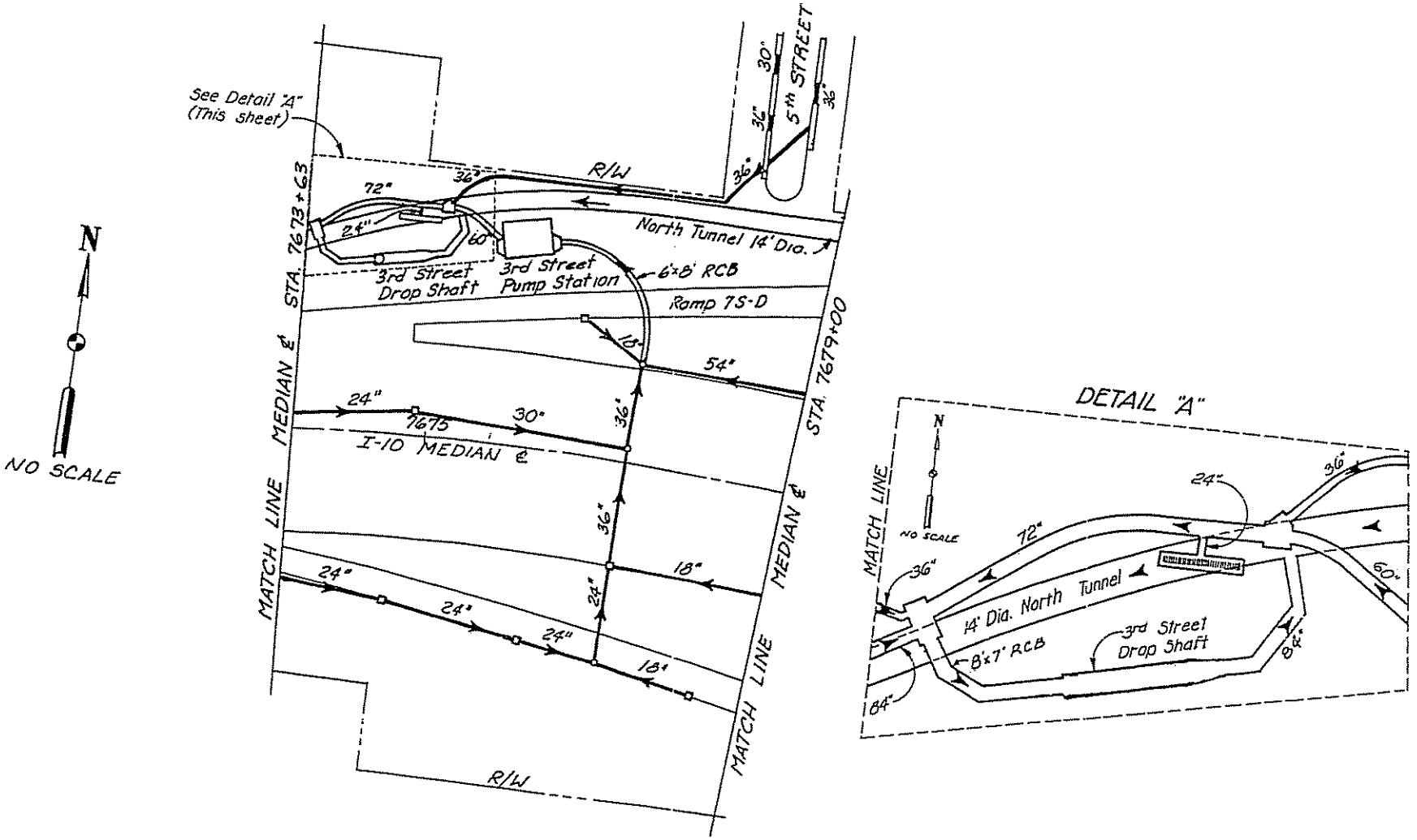
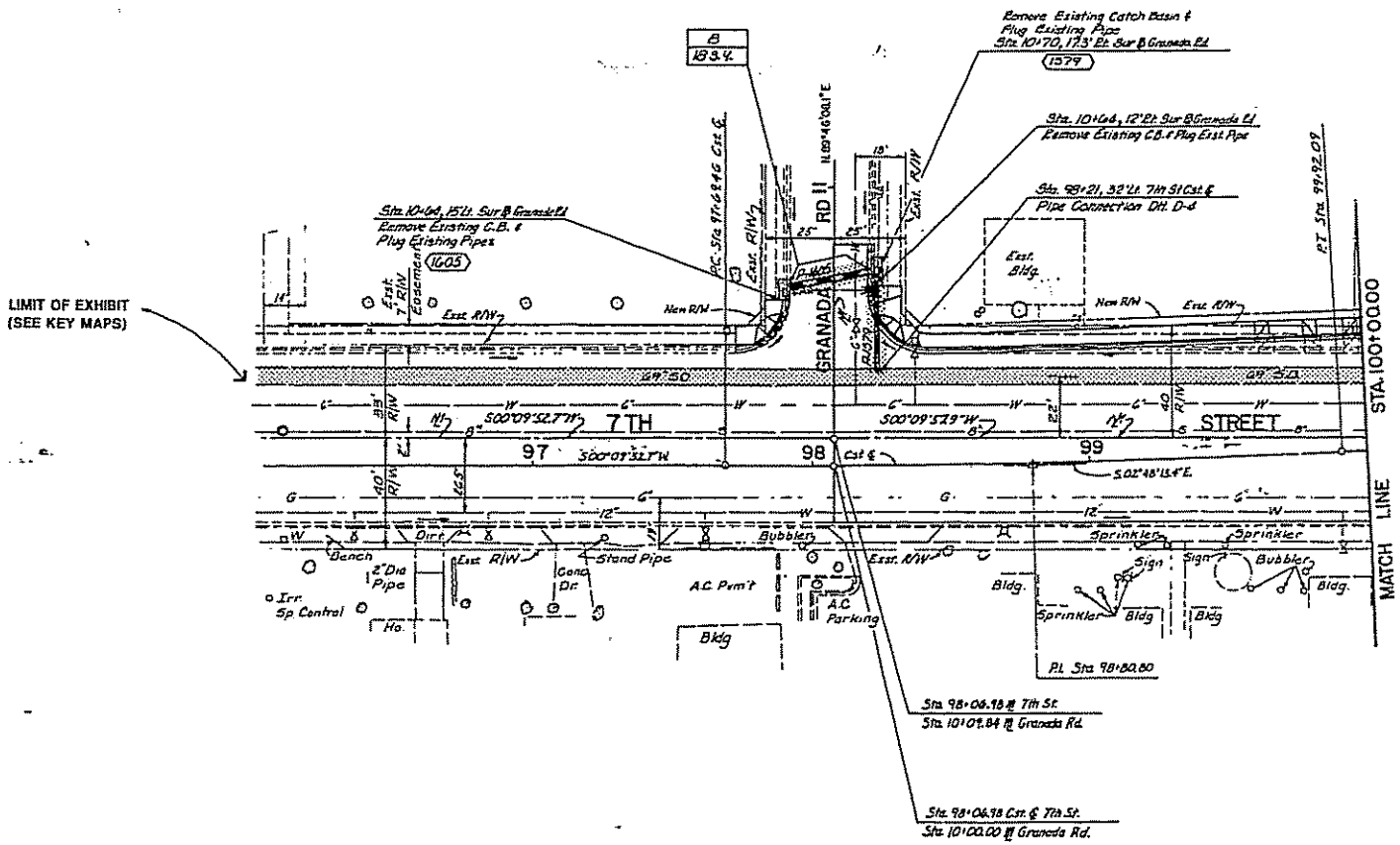


Figure 4-2, Sheet 8
Inner Loop Drainage System
3rd St - 5th St

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T. I.
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	IZ 1-10-3 (239)	599	1142	

DATE FOR THE CONSULTING ENGINEER
DESIGN: HC DRAWN: SS CHECKED: [illegible]
GREINER ENGINEERING SCIENCES, INC.



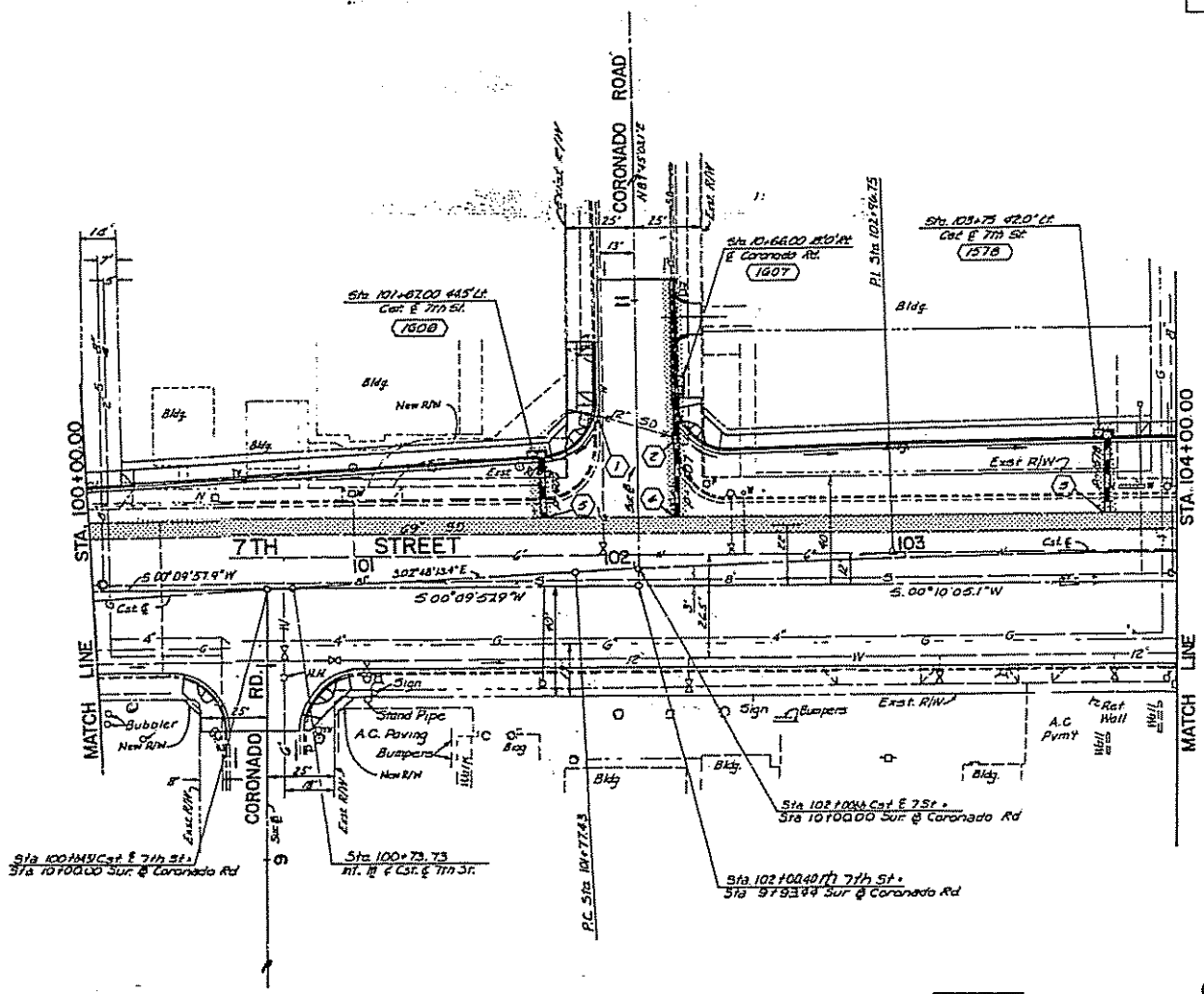
REDUCED SIZE DO NOT SCALE

OFFSITE DRAINAGE
7TH ST. STA. 98+06.98 TO STA. 100+00.00

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T. I.
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	AZ I-10-3 (239)	440	1248	

DATE FOR THE CONSULTING ENGINEER
DESIGN: MC DRAWN: CHECKED: EH/RB
GREINER ENGINEERING SCIENCES, INC.



1. Remove Exst. Catch Basin & Plug Exst. Pipe Dtl. D-8
2. Remove Exst. Catch Basin & Plug Exst. Pipe North Dtl. D-8 Reconnect Exst. 12" W & 8" E S.D. With 8 Lin. Ft. 12" RCP Class III Dtl. 82-25-U.
3. Sta. 103+75, 10.9' Lt. Pipe Connection, Dtl. D-4
4. Sta. 102+16, 15' Lt. Pipe Connection, Dtl. D-4
5. Sta. 101+65.6, 17.2' Lt. Pipe Connection, Dtl. D-4

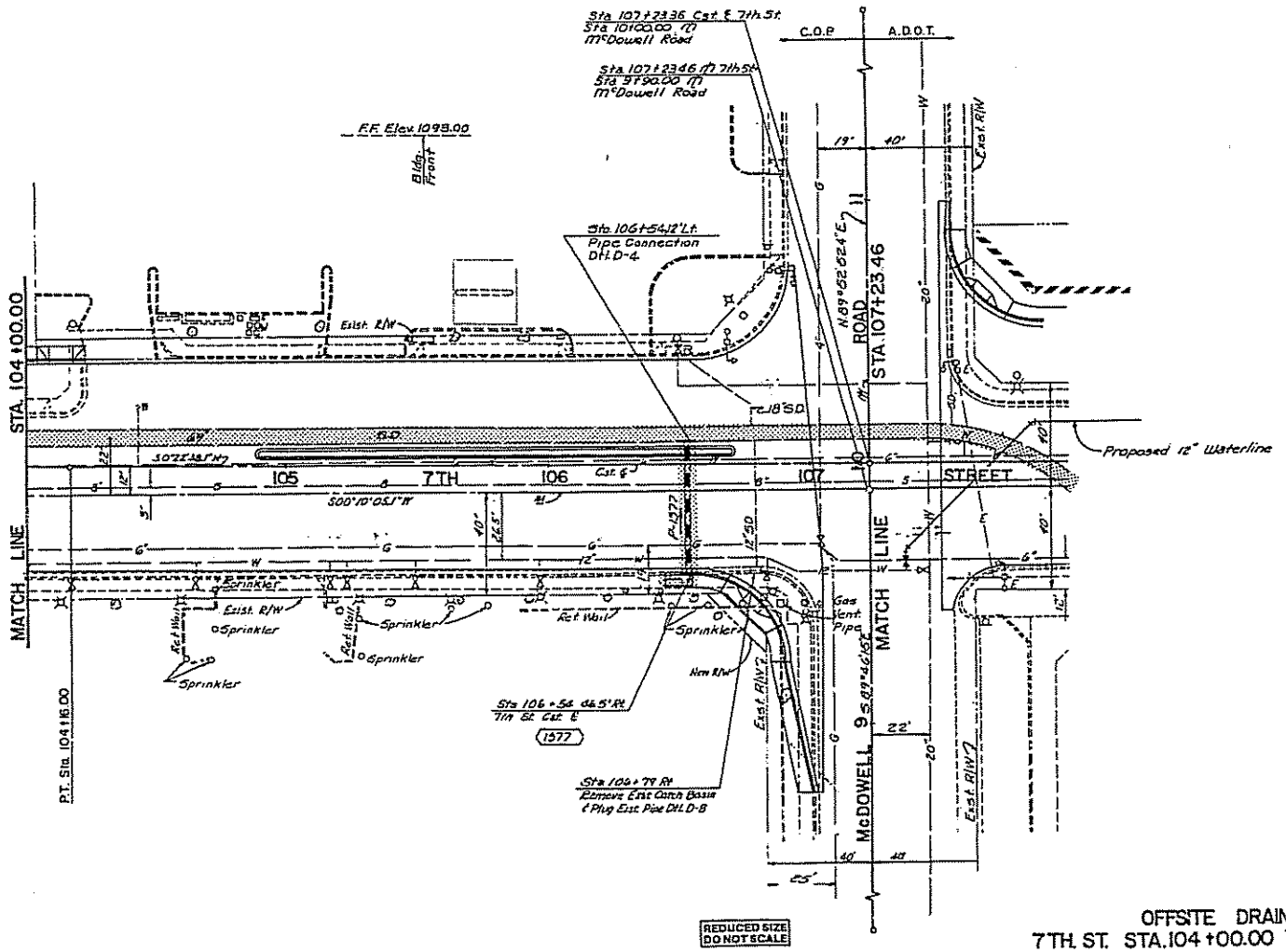
REDUCED SIZE DO NOT SCALE

OFFSITE DRAINAGE
7TH ST. STA. 100+00 TO STA. 104+00.00

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	AZ 1-10-3 (239)	431	1548	

DATE 7-11-86 FOR THE CONSULTING ENGINEER
DESIGN: MC DRAWN: CANADA CHECKED: EN/EG
GREINER ENGINEERING SCIENCES, INC.



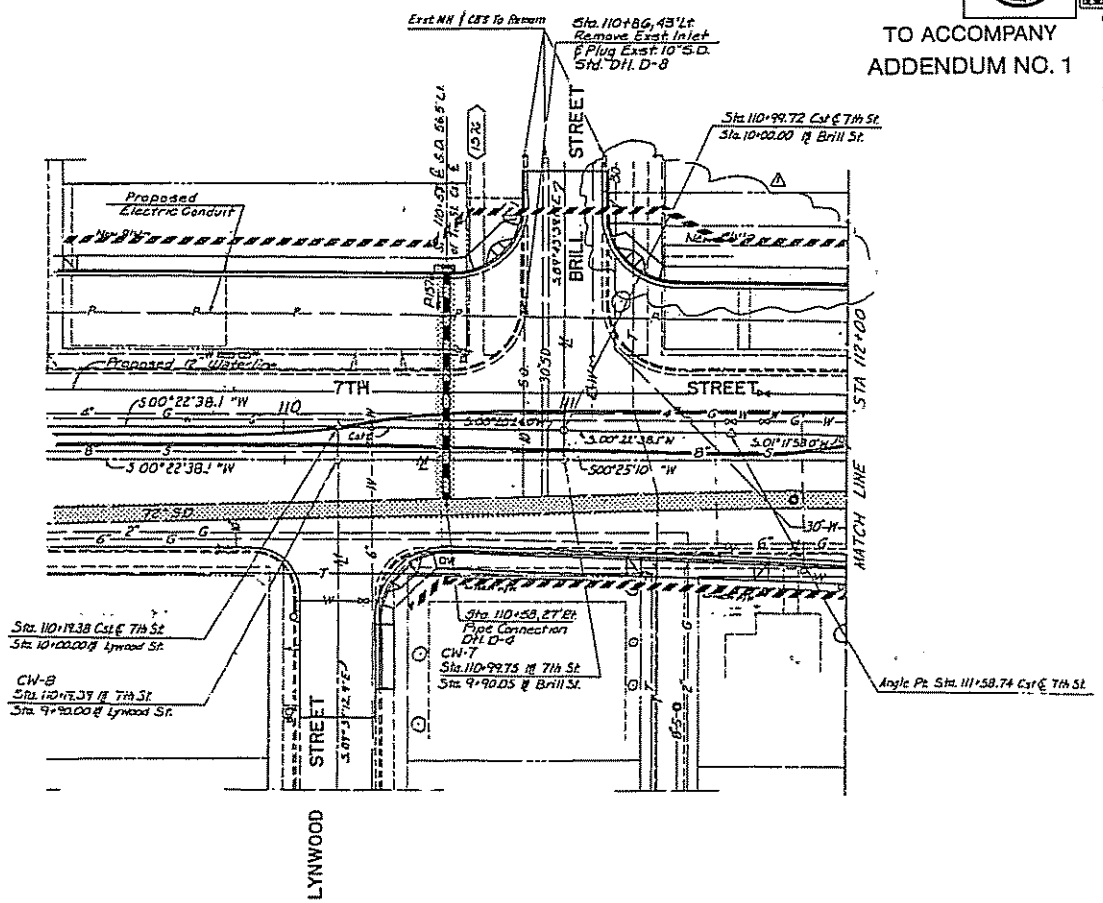
OFFSITE DRAINAGE
7TH. ST. STA.104+00.00 TO STA.107+23.46

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T. I.
MARICOPA COUNTY

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	IZ 1-10-3 (239)	102	1198	

3-24-81 DATE — FOR THE CONSULTING ENGINEER
DESIGN: MC DRAWN: FC CHECKED: LWEB
GREINER ENGINEERING SCIENCES, INC.

TO ACCOMPANY
ADDENDUM NO. 1



NO.	REVISIONS	BY	DATE
1	INCORPORATE EAST SIDE	JLP	5-29-80

REDUCED SIZE DO NOT SCALE

OFFSITE DRAINAGE
7th. ST. AT BRILL ST.
Sta. 109+00 to Sta. 112+00

NO.	REVISIONS	BY	DATE
△	Change offset to 59' Lt.	U.P.	8-23-86

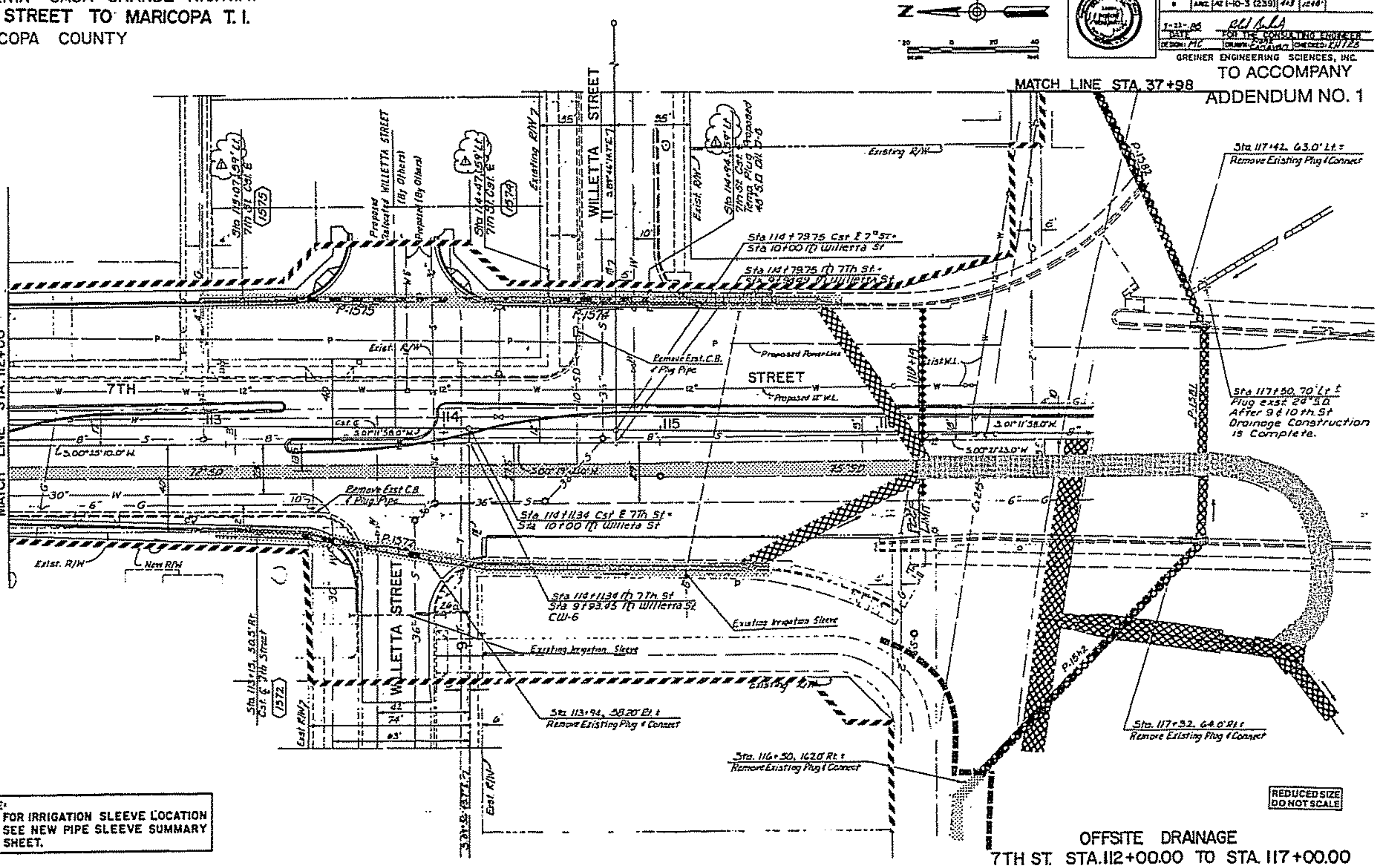
ADD#1

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
8	ARIZ.	AZ I-10-3 (239)	413	1246	

DATE: 1-23-86 — FOR THE CONSULTING ENGINEER
DESIGN: MC — DRAWN: — CHECKED: EH/TZ5
GREINER ENGINEERING SCIENCES, INC.

TO ACCOMPANY
ADDENDUM NO. 1



NOTE:
FOR IRRIGATION SLEEVE LOCATION
SEE NEW PIPE SLEEVE SUMMARY
SHEET.

REDUCED SIZE
DO NOT SCALE

OFFSITE DRAINAGE
7TH ST. STA. 112+00.00 TO STA. 117+00.00

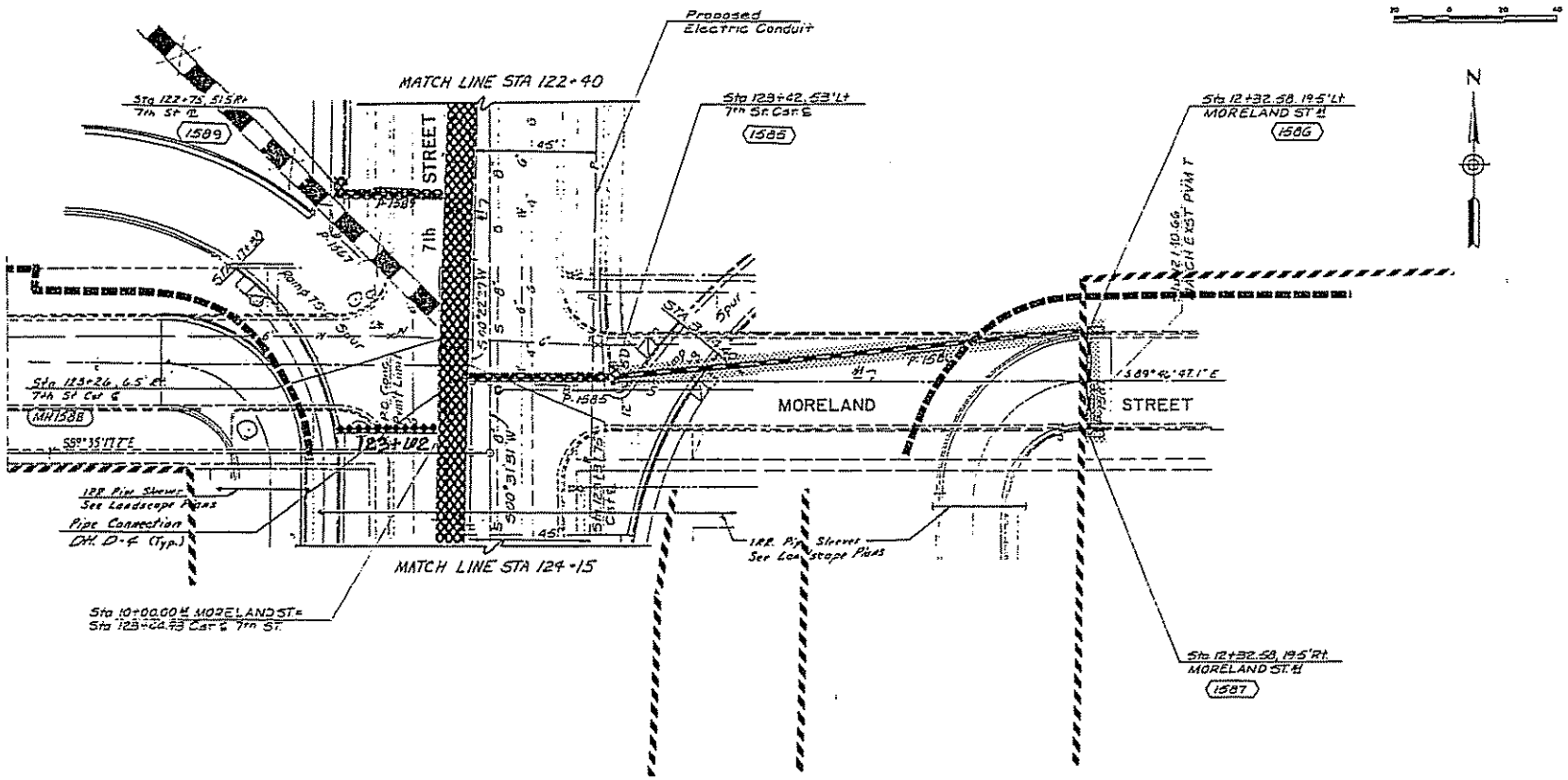
REVISED 8-3-93

C-43

PHOENIX - CASA GRANDE HIGHWAY
7th STREET UNDERPASS
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ACI-10-3(208)	119	235	

DATE FOR THE CONSULTING ENGINEER
DESIGN: EH DRAWN: DH CHECKED: GEVRB
GREINER ENGINEERING SCIENCES, INC.



REDUCED SIZE DO NOT SCALE

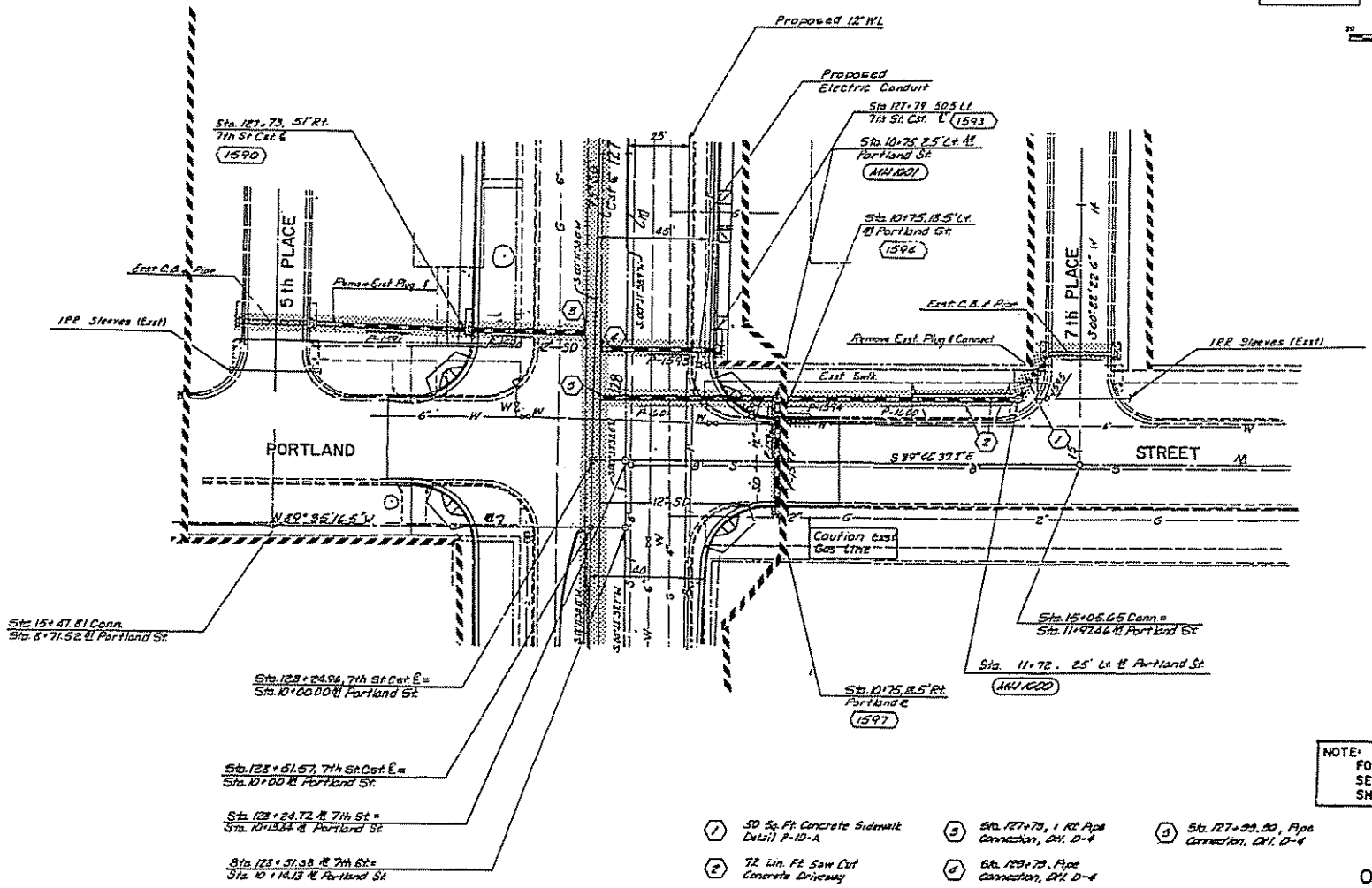
OFFSITE DRAINAGE
7th. ST. AT MORELAND ST.
Sta. 122+40 to Sta. 124+15

1-10-3 (159) P.E. SHEET NO. 35

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	AZ I-10-3 (239)	404	1248	

DATE FOR THE CONSULTING ENGINEER
DESIGN: MC DRAWN: SG CHECKED: EH/RB
GREINER ENGINEERING SCIENCES, INC.



(1) 50 Sq. Ft. Concrete Sidewalk Detail P-10-A

(2) 72 Lin. Ft. Saw Cut Concrete Driveway

(3) Sta. 127+73, 1 Rt. Pipe Connection, Dtl. D-4

(4) Sta. 128+73, Pipe Connection, Dtl. D-4

(5) Sta. 127+99.50, Pipe Connection, Dtl. D-4

NOTE:
FOR IRRIGATION SLEEVE LOCATION SEE NEW PIPE SLEEVE SUMMARY SHEET.

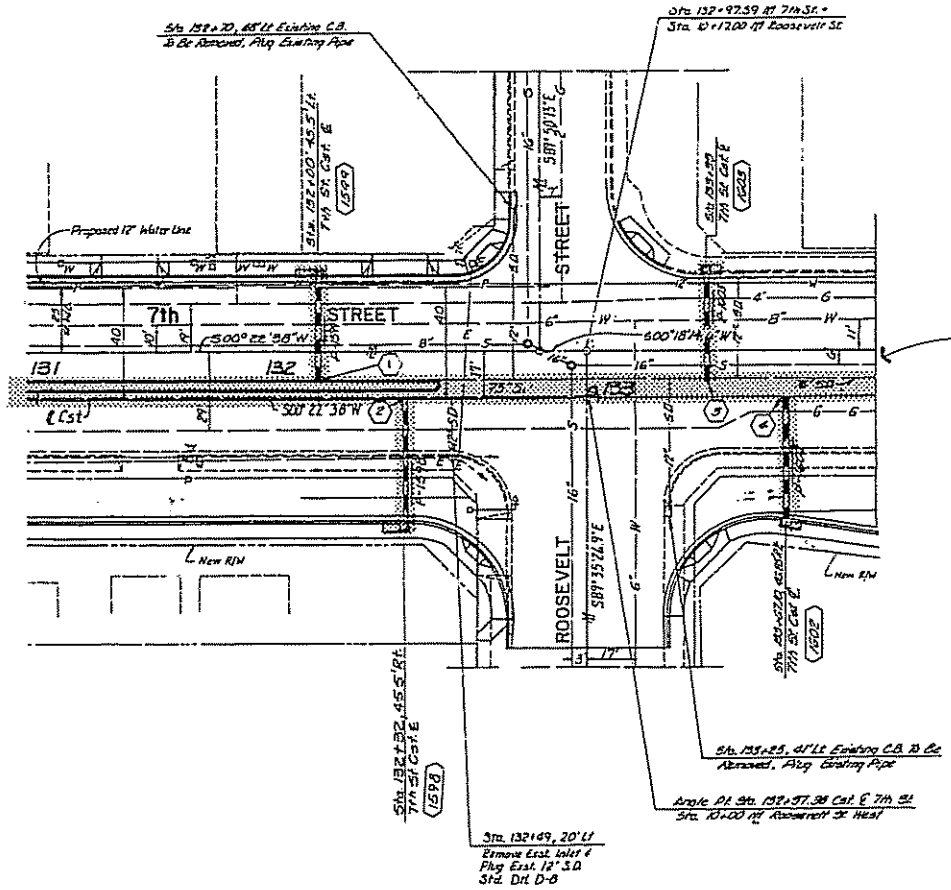
REDUCED SIZE DO NOT SCALE

OFFSITE DRAINAGE
7th ST. at PORTLAND ST.

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3 (239)	405	1144	

1-22-84 DATE — FOR THE CONSULTING ENGINEER
DESIGN: MC DRAWN: FC CHECKED: CH/RB
GREINER ENGINEERING SCIENCES, INC.



1. Sta. 132+00, 4' Lt Pipe Connection, Drt. D-4
2. Sta. 132+32, 4' Lt Pipe Connection, Drt. D-4
3. Sta. 133+39, 4' Lt Pipe Connection, Drt. D-4
4. Sta. 133+62, 4' Lt Pipe Connection, Drt. D-4

REDUCED SIZE DO NOT SCALE

OFFSITE DRAINAGE
7th ST. AT ROOSEVELT ST.

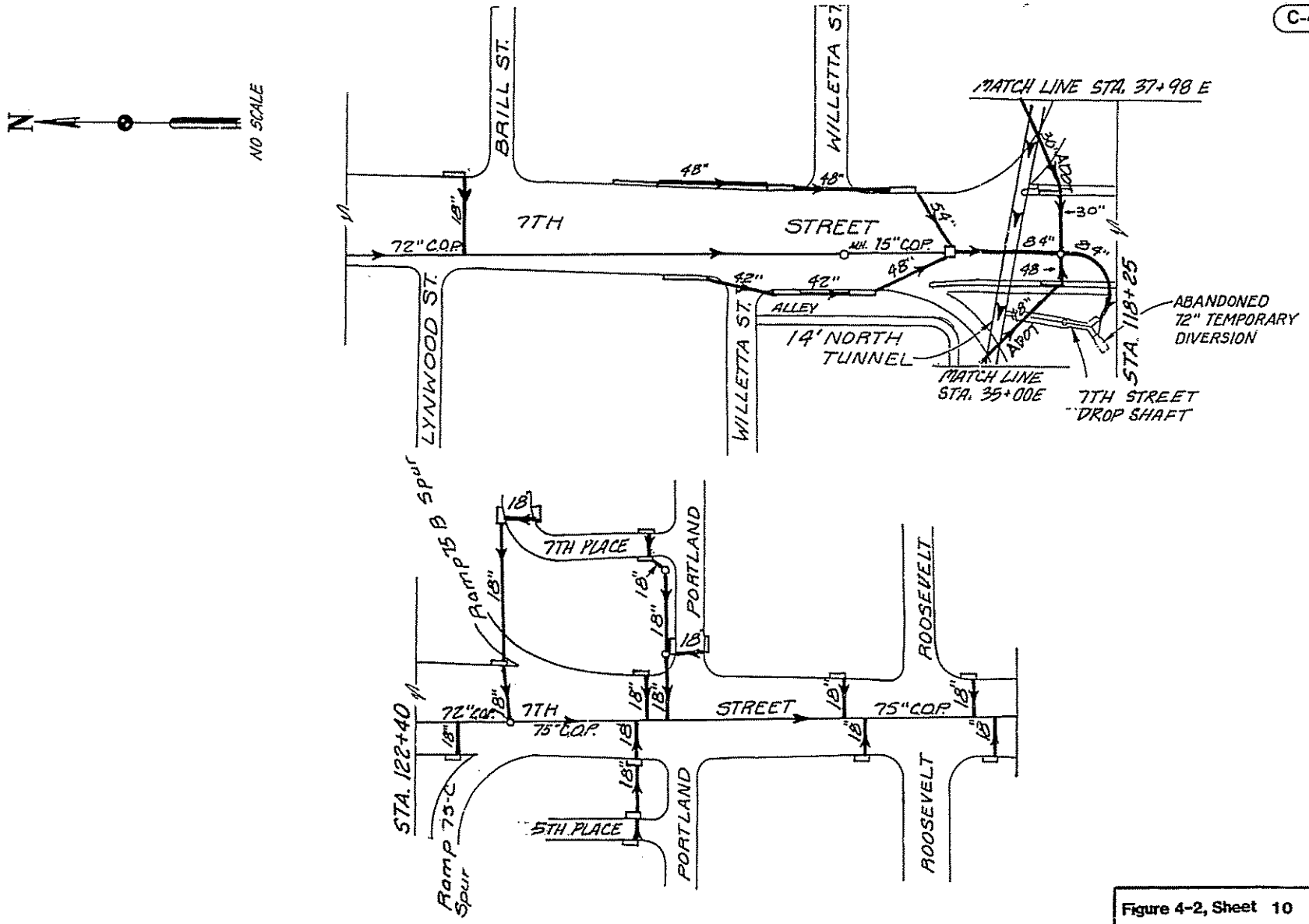
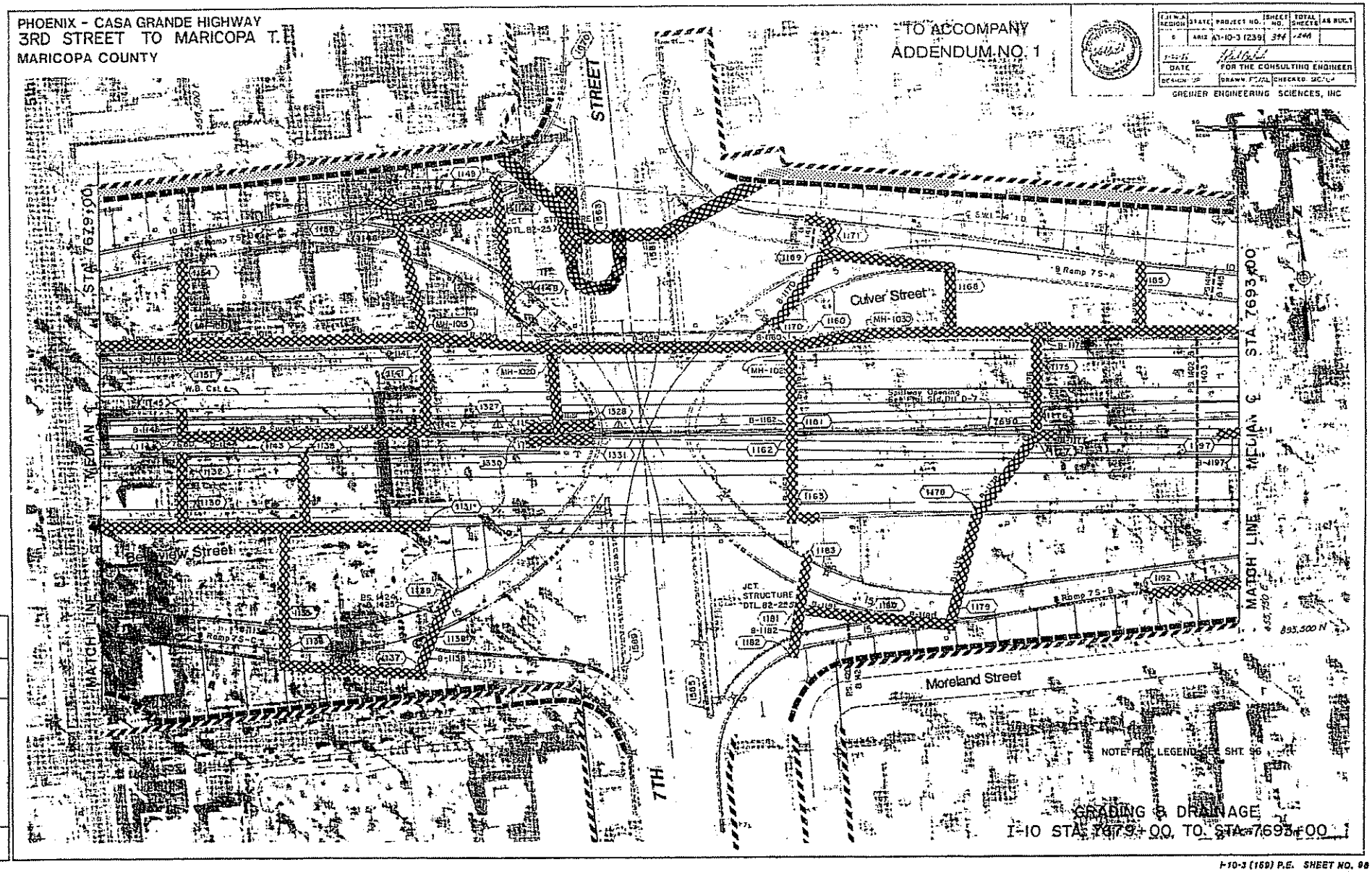


Figure 4-2, Sheet 10
Inner Loop Drainage System
7th St.


PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.
MARICOPA COUNTY
TO ACCOMPANY
ADDENDUM NO. 1
GREINER ENGINEERING SCIENCES, INC
STREET
Culver Street
Bellaview Street
Moreland Street
MATCH LINE
MEDIAN ℄
STA 7679+00
STA 7693+00
7TH
JCT. STRUCTURE DTL 82-25
Spillway Opening
Ramp 7S-A
Ramp 7S-B
Ramp 7S-C
NOTE FOR LEGEND SEE SHT. 96
GRADING & DRAINAGE
I-10 STA 7679+00 TO STA 7693+00
REVISIONS
NO
CHANGE 75-A SPUR
ADD CB 1327,1328,1330
BY
DATE
6-23-86

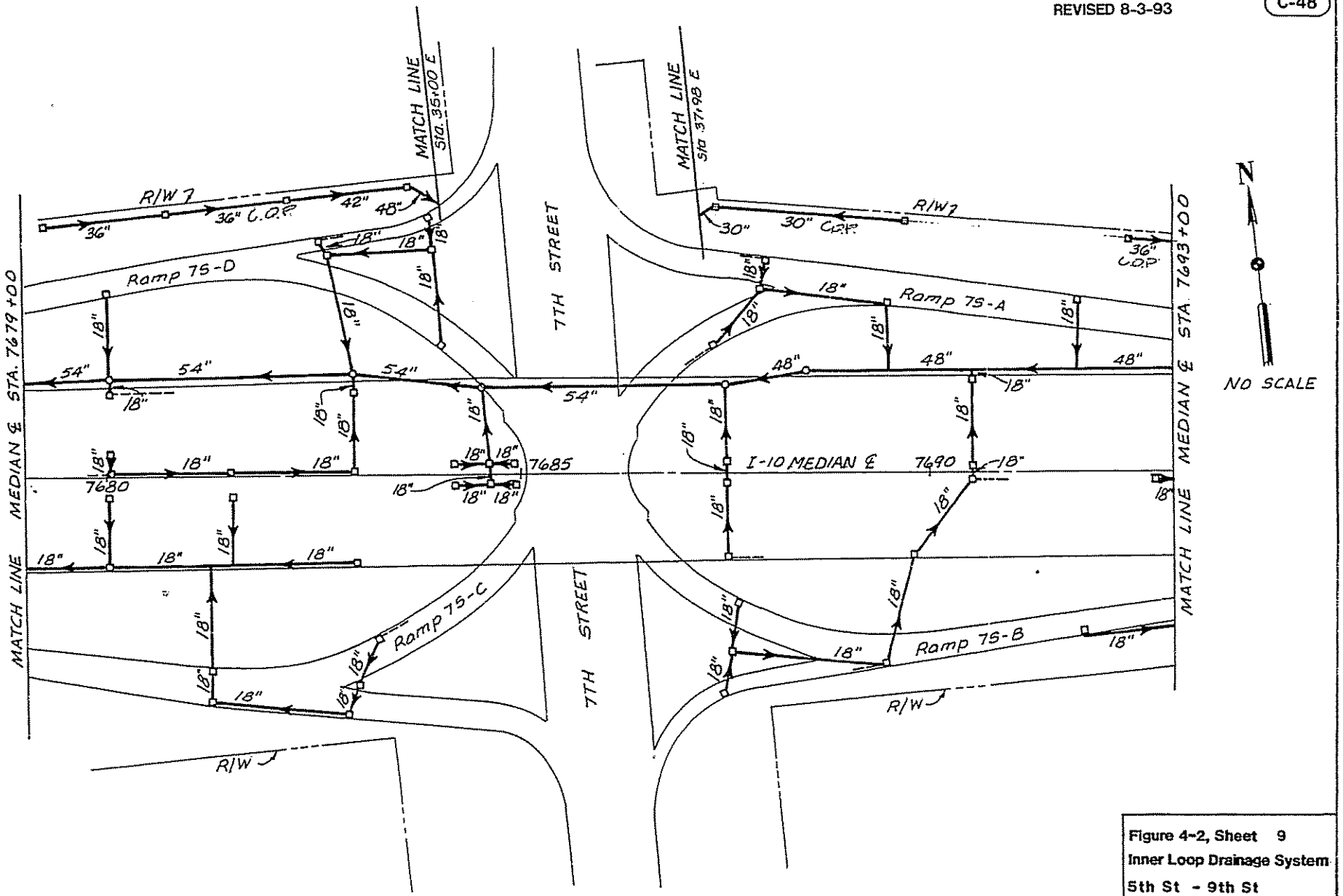


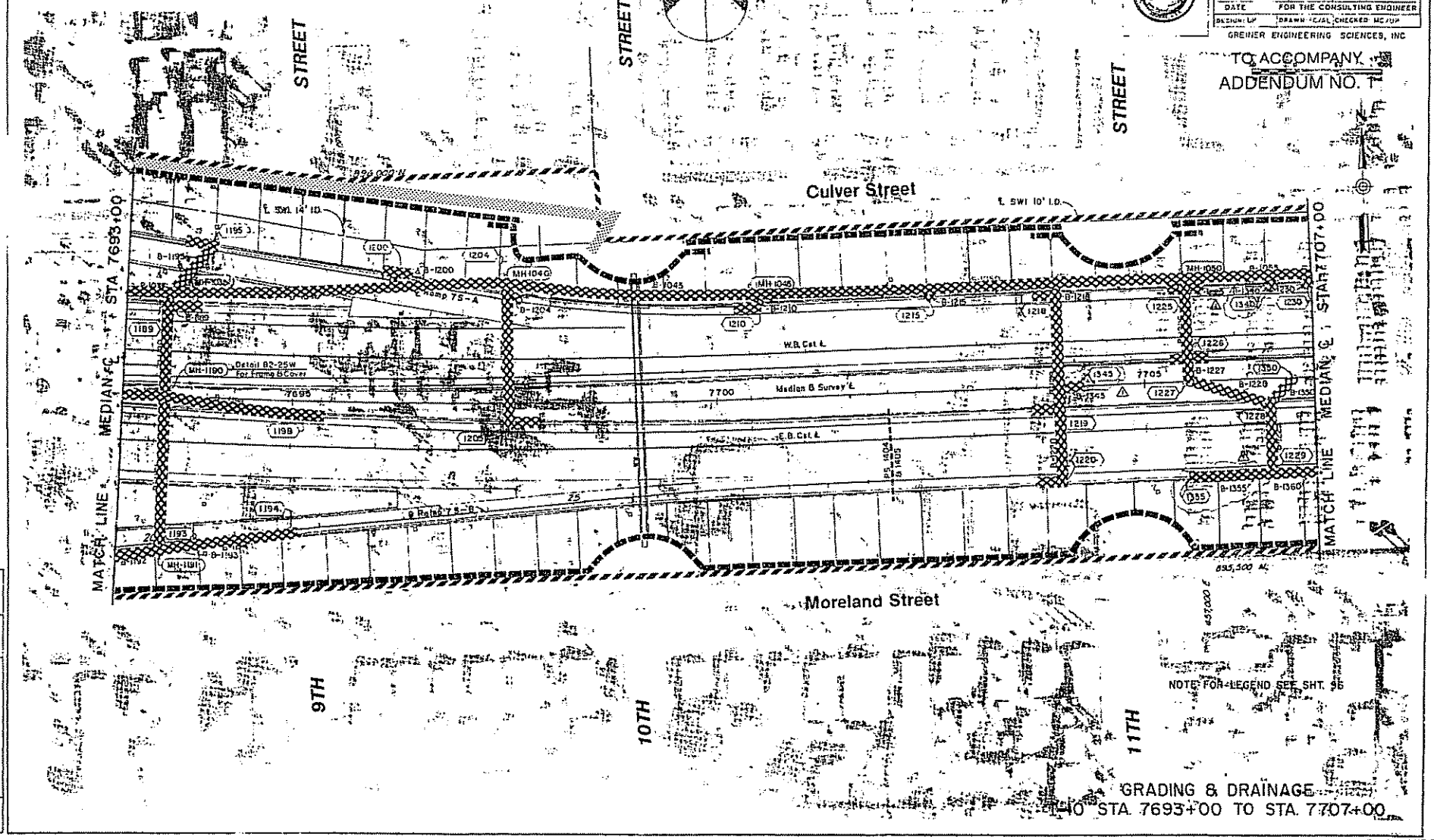
Figure 4-2, Sheet 9
Inner Loop Drainage System
5th St - 9th St

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY

F.H.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
6	ARIZ	A-10-3 (239)	395	1243	

DATE — FOR THE CONSULTING ENGINEER
DESIGN: UP — DRAWN: CJAL — CHECKED: MC/UP
GREINER ENGINEERING SCIENCES, INC

TO ACCOMPANY
ADDENDUM NO. 1

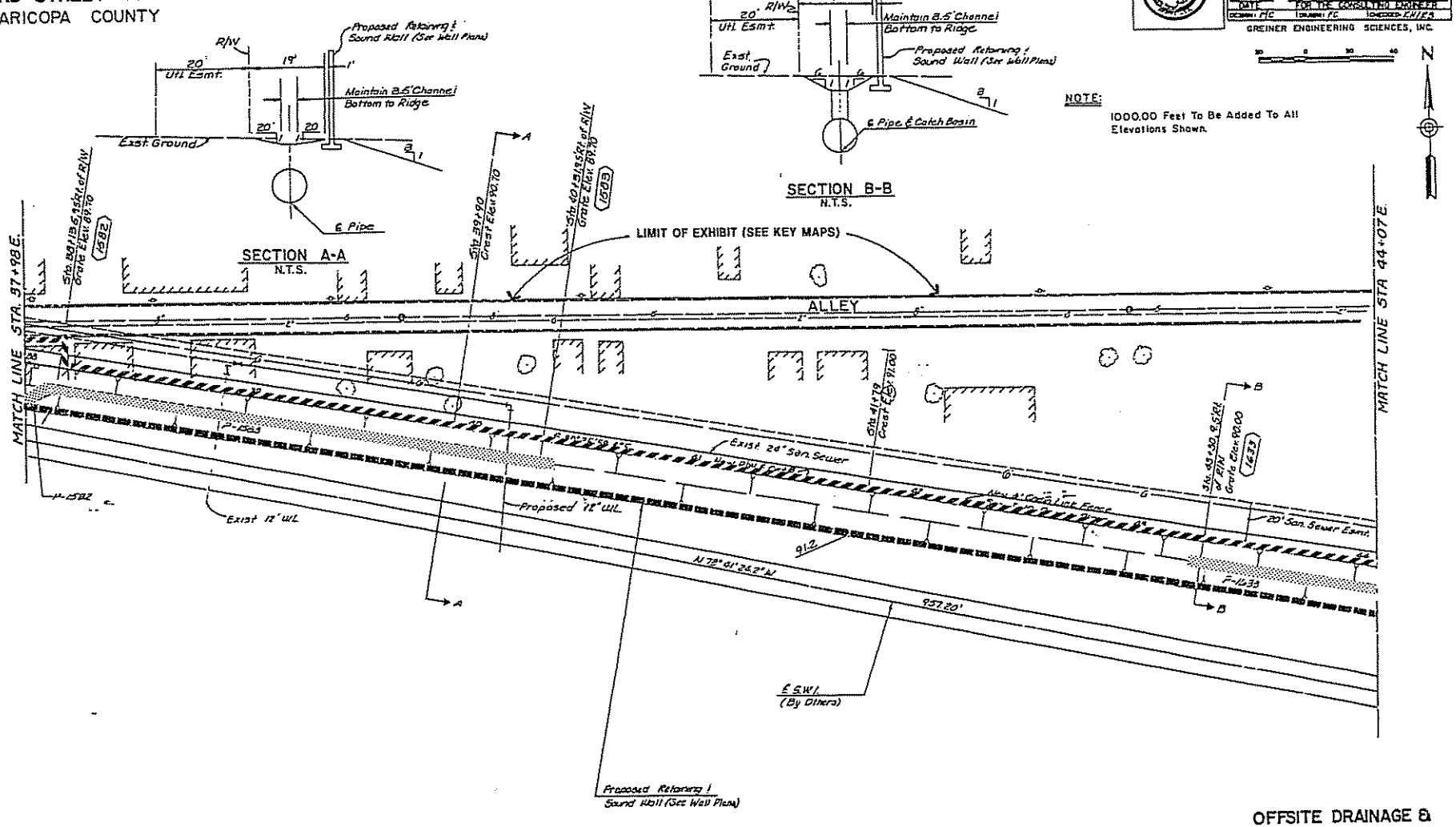


GRADING & DRAINAGE
1-10 STA. 7693+00 TO STA. 7707+00

NO	REVISIONS	BY	DATE
1	ADD CB 1340, 1345, 1355	UP	5/23/86

1-10-3 (159) P.E. SHEET NO. 99

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY



NOTE:
1000.00 Feet To Be Added To All Elevations Shown.

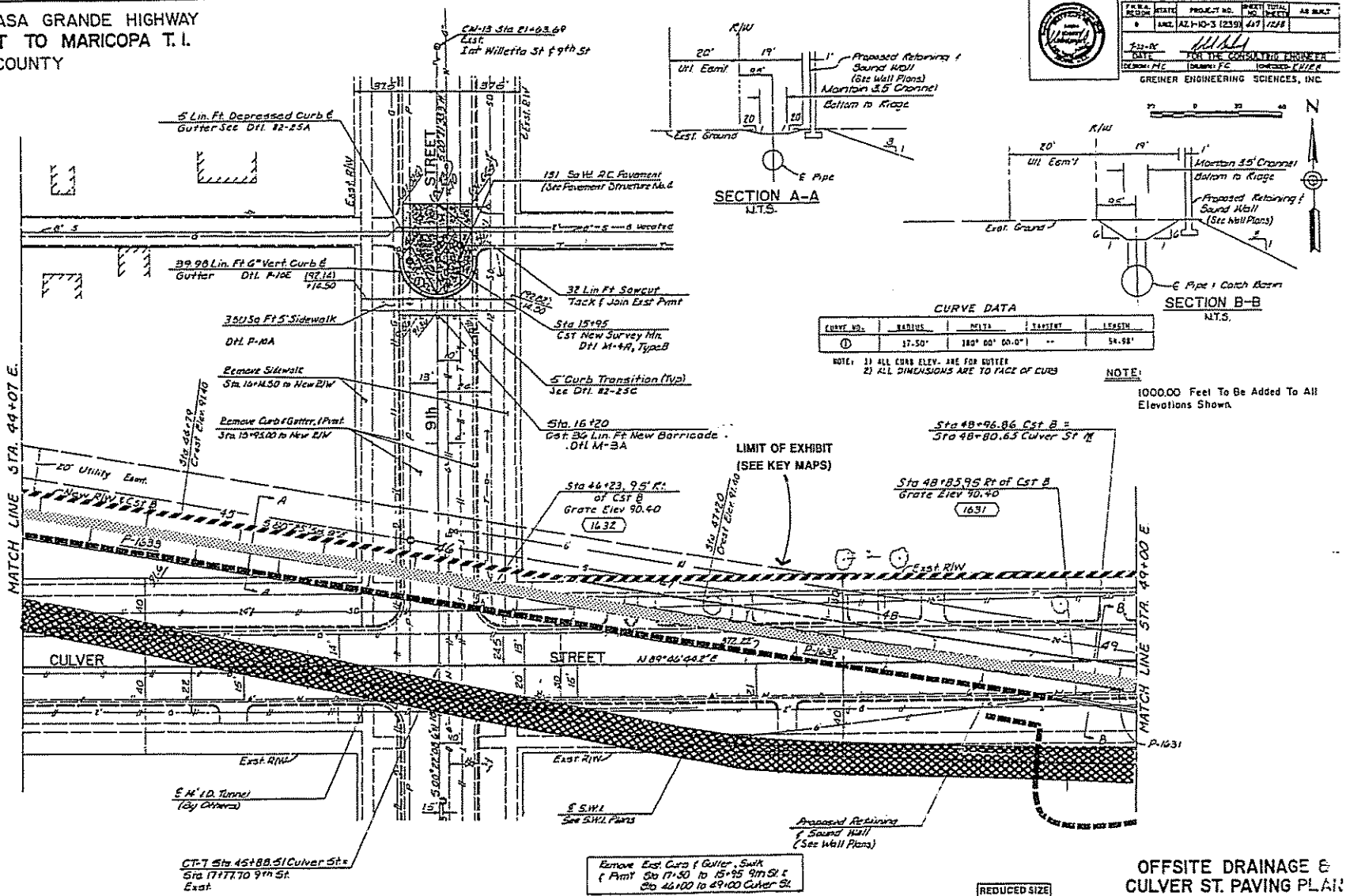
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	AZ 1-10-3 (239)	406	1248	

DATE 4-22-86 FOR THE CONSULTING ENGINEER
DESIGNED FC DRAWN FC CHECKED EH/ES
GREINER ENGINEERING SCIENCES, INC.

REDUCED SIZE DO NOT SCALE

OFFSITE DRAINAGE & ALLEY PAVING PLAN
Sta. 37+98 to Sta. 44+07

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T. I.
MARICOPA COUNTY



CURVE DATA

CURVE NO.	RADIUS	DELTA	TANGENT	LENGTH
1	17.50'	180° 00' 00.0"	--	54.98'

NOTE: 1) ALL CURB ELEV. ARE FOR GUTTER
2) ALL DIMENSIONS ARE TO FACE OF CURB

NOTE:
1000.00 Feet To Be Added To All Elevations Shown.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	AZ.1-10-3 (239)	467	1268	

DATE FOR THE CONSULTING ENGINEER
DESIGN: MC DRAWN: FC CHECKED: EHIER
GREINER ENGINEERING SCIENCES, INC.

REDUCED SIZE DO NOT SCALE

OFFSITE DRAINAGE & CULVER ST. PAVING PLAN
Sta. 44+07 to Sta. 49+00

PHOENIX-CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY

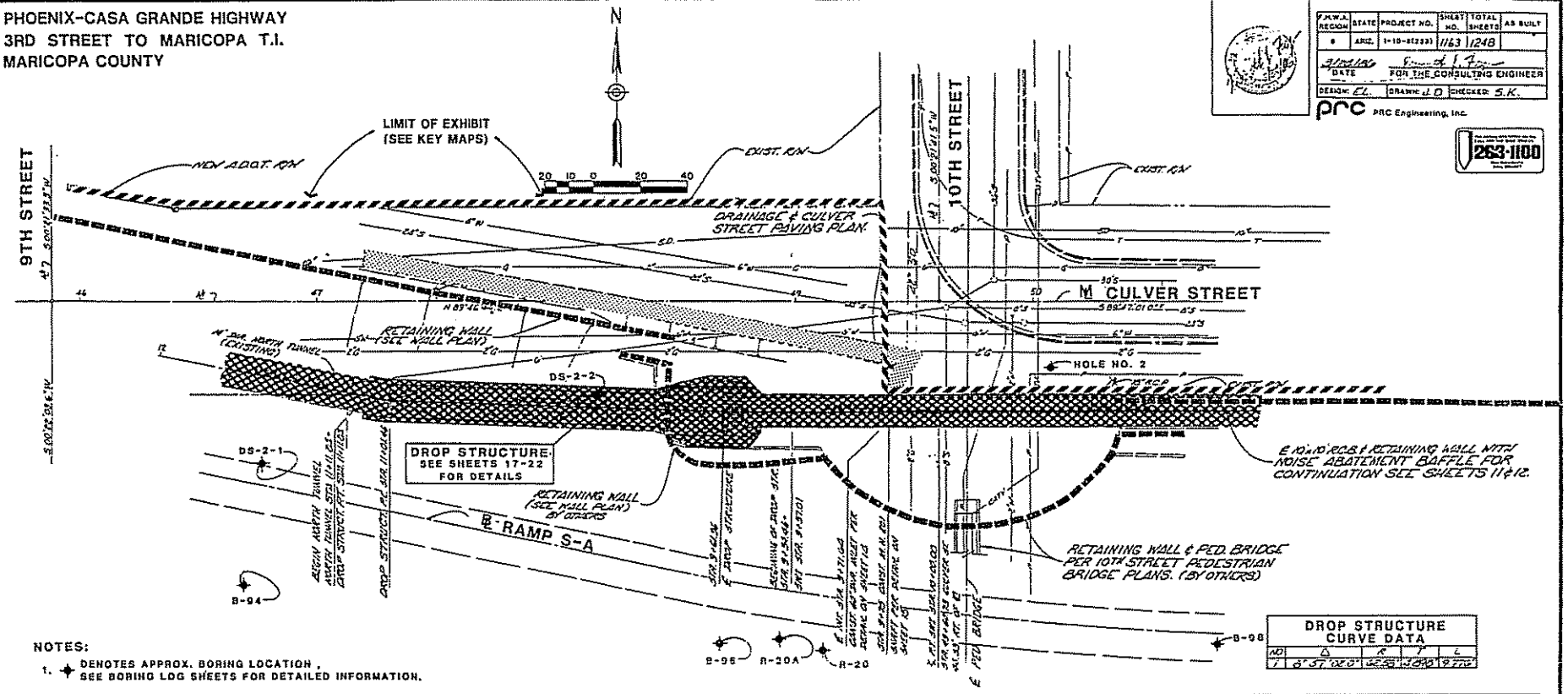
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
8	ARIZ.	I-10-8(233)	1163	1248	

DATE — FOR THE CONSULTING ENGINEER

DESIGN: EL. DRAWN: J.D. CHECKED: S.K.

PRC Engineering, Inc.

263-1100



NOTES:

1. ✦ DENOTES APPROX. BORING LOCATION, SEE BORING LOG SHEETS FOR DETAILED INFORMATION.
2. SHADED AREA DENOTES LIMITS OF WORK FOR DROP STRUCTURE.

DROP STRUCTURE CURVE DATA				
NO	Δ	R	T	L
1	8° 37' 02.0"	32.00	3.690	9.710

DROP STRUCTURE COORDINATE DATA			
	STATION	N	E
N TUNNEL	11+11.23	695,912.512	456,087.042
DROP STR.	11+01.46	695,918.350	456,097.139
DROP STR.	9+61.96	695,912.607	456,236.520
DROP STR.	9+34.66	695,912.501	456,264.020
S.W.I.	9+37.01	695,912.501	456,264.020
S.W.I.	10+00.00	695,912.256	456,327.008
S.W.I.	15+78.30	695,910.073	456,905.303
S.W.I.	22+66.76	695,907.307	457,595.755
S.W.I.	22+75.64	695,907.476	457,602.835

10TH STREET DROP STRUCTURE SITE PLAN

REDUCED SIZE DO NOT SCALE

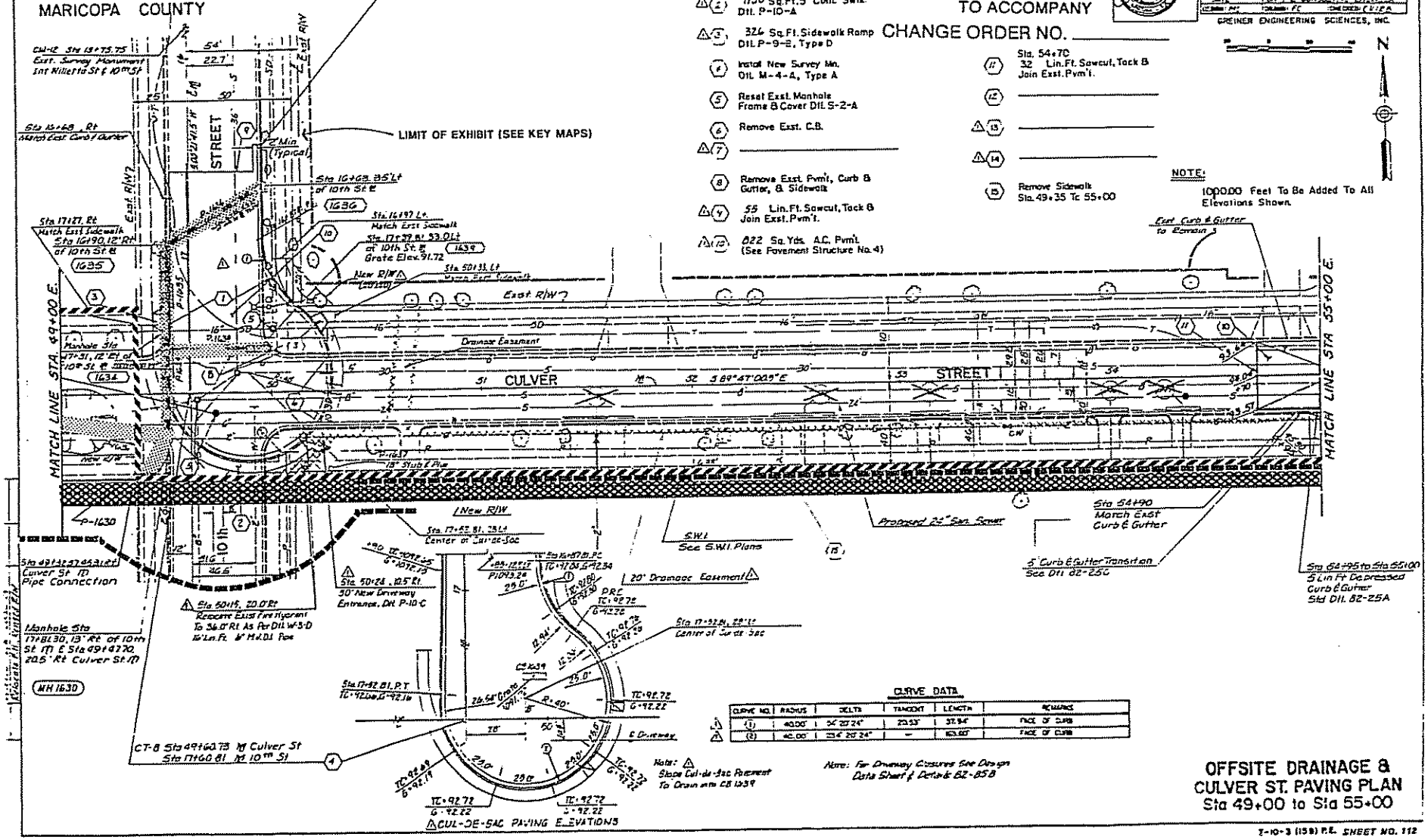
PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY

TO ACCOMPANY
CHANGE ORDER NO. _____

1. 331 Lin. Ft. Conc. Curb & Gutter Dtl. P-10-E, Type MAG-A, h=6"
2. 1150 Sq. Ft. 5' Conc Swlk. Dtl. P-10-A
3. 324 Sq. Ft. Sidewalk Ramp Dtl. P-9-2, Type D
4. Install New Survey Mn. Dtl. M-4-A, Type A
5. Reset Exst. Manhole Frame & Cover Dtl. S-2-A
6. Remove Exst. C.B.
7. _____
8. Remove Exst. Pvm't, Curb & Gutter, & Sidewalk
9. 55 Lin. Ft. Sawcut, Tack & Join Exst. Pvm't.
10. 822 Sq. Yds. A.C. Pvm't. (See Pavement Structure No. 4)
11. Sta. 54+70 32 Lin. Ft. Sawcut, Tack & Join Exst. Pvm't.
12. _____
13. _____
14. _____
15. Remove Sidewalk Sta. 49+35 To 55+00

NOTE:
100.00 Feet To Be Added To All Elevations Shown.

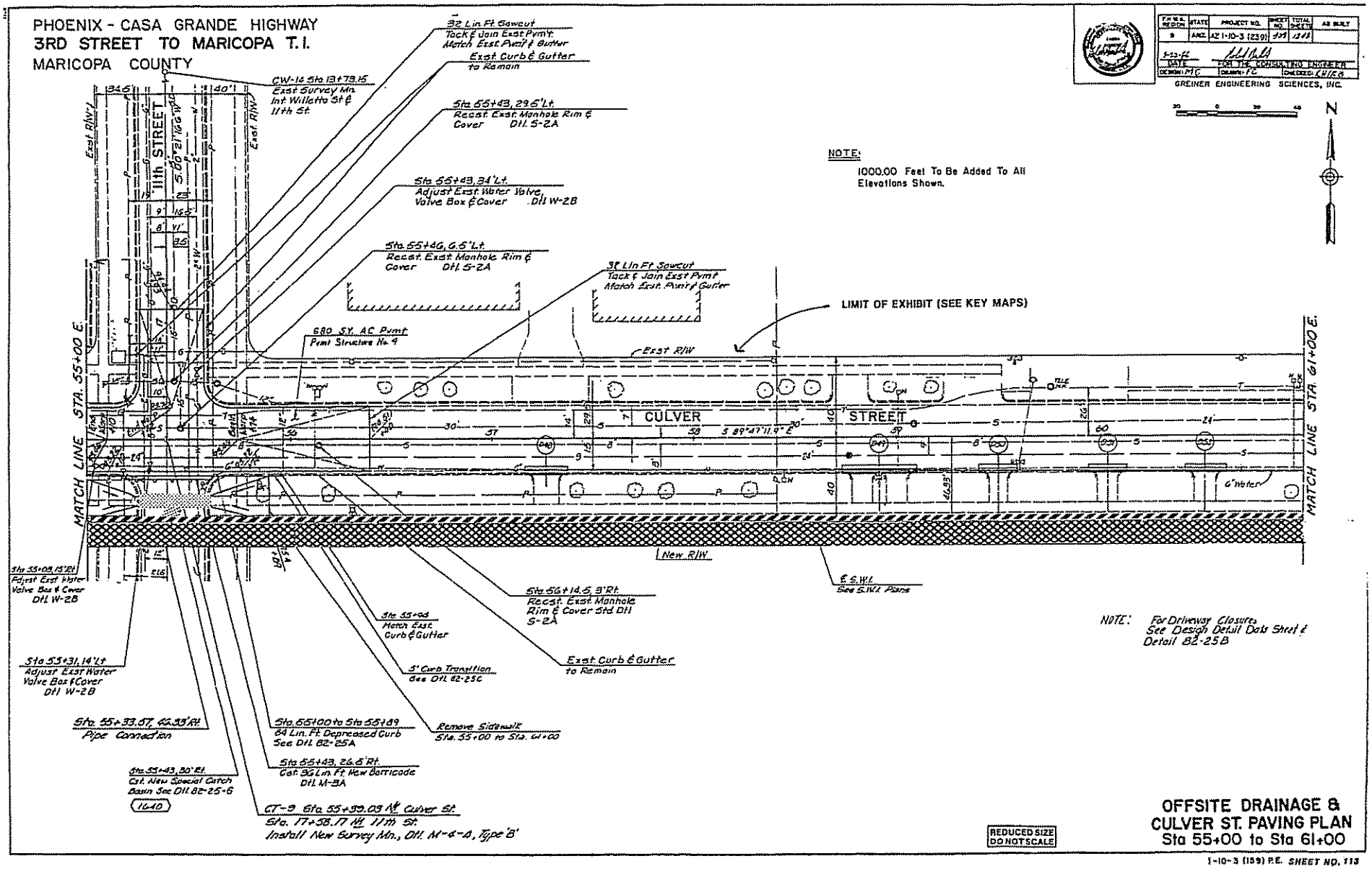
GREINER ENGINEERING SCIENCES, INC.



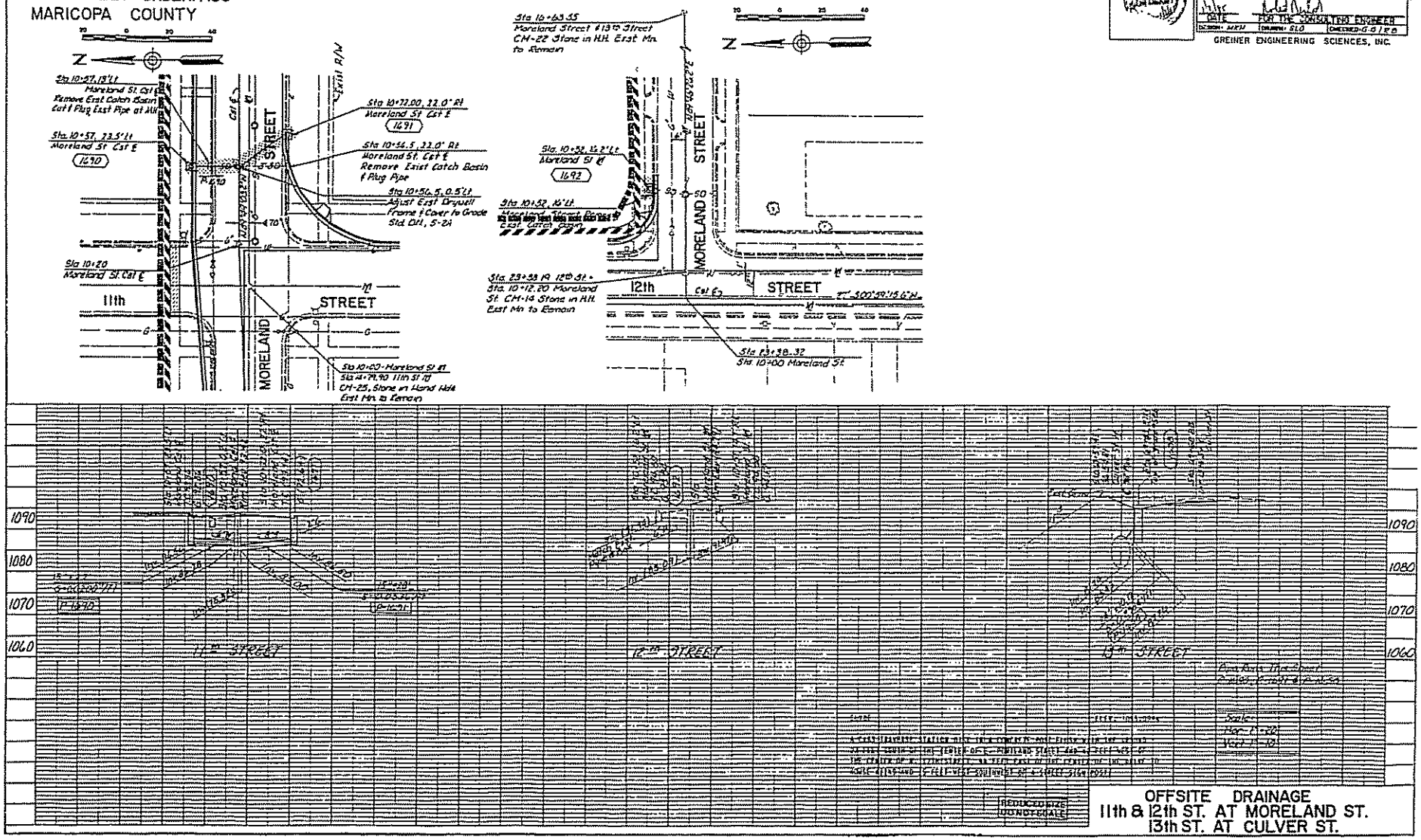
CURVE DATA

CURVE NO.	RADIUS	DELTA	TANGENT	LENGTH	REFERENCE
(1)	40.00'	54° 23' 24"	23.53'	37.94'	FACE OF CURB
(2)	40.00'	234° 20' 24"	—	163.60'	FACE OF CURB

OFFSITE DRAINAGE & CULVER ST. PAVING PLAN
Sta 49+00 to Sta 55+00


PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY
32 Lin Ft Sawcut
Tack & Join Exst Pvmt
Match Exst Pvmt & Gutter
Exst Curb & Gutter
to Remain
CW-14 Sta 13+73.15
Exst Survey Mn.
Int Willetta St & 11th St.
Sta 55+43, 29.5' Lt.
Recst. Exst. Manhole Rim & Cover Dtl. S-2A
Sta 55+43, 34' Lt.
Adjust Exst Water Valve, Valve Box & Cover Dtl W-2B
Sta 55+46, 6.5' Lt.
Recst. Exst Manhole Rim & Cover Dtl. S-2A
32 Lin Ft Sawcut
Tack & Join Exst Pvmt
Match Exst. Pvmt & Gutter
680 SY. AC Pvmt
Pvmt Structure No. 4
LIMIT OF EXHIBIT (SEE KEY MAPS)
NOTE:
1000.00 Feet To Be Added To All Elevations Shown.
11th STREET
CULVER STREET
MATCH LINE STA. 55+00 E.
MATCH LINE STA. 61+00 E.
Exst R/W
New R/W
Sta 55+08, 15' Rt.
Adjust Exst Water Valve Box & Cover Dtl W-2B
Sta 55+31, 14' Lt.
Adjust Exst Water Valve Box & Cover Dtl W-2B
Sta. 55+33.57, 46.33' Rt.
Pipe Connection
Sta. 55+43, 30' Rt.
Cst. New Special Catch Basin See Dtl. 82-25-6
1640
Sta. 55+00 to Sta 55+89
84 Lin. Ft. Depressed Curb See Dtl. 82-25A
Sta 55+43, 26.5' Rt.
Cst. 36 Lin Ft New Barricade Dtl. M-3A
CT-9 Sta. 55+39.03 Nl Culver St.
Sta. 17+58.17 Nl 11th St.
Install New Survey Mn., Dtl. M-4-A, Type 'B'
Sta 55+94
Match Exst. Curb & Gutter
5' Curb Transition
See Dtl. 82-25C
Remove Sidewalk
Sta. 55+00 to Sta. 61+00
Sta. 56+14.5, 3' Rt.
Recst. Exst. Manhole Rim & Cover Std Dtl S-2A
Exst. Curb & Gutter
to Remain
℄ S.W.L.
See S.W.L. Plans
6" Water
NOTE: For Driveway Closures See Design Detail Data Sheet & Detail 82-25B
REDUCED SIZE DO NOT SCALE
N
GREINER ENGINEERING SCIENCES, INC.
FOR THE CONSULTING ENGINEER
DATE
DESIGN: FC
DRAWN: FC
CHECKED: KHRB
AZ 1-10-3 (239)
OFFSITE DRAINAGE &
CULVER ST. PAVING PLAN
Sta 55+00 to Sta 61+00
1-10-3 (159) P.E. SHEET NO. 113

PHOENIX - CASA GRANDE HIGHWAY
12th STREET UNDERPASS
MARICOPA COUNTY



OFFSITE DRAINAGE
11th & 12th ST. AT MORELAND ST.
13th ST. AT CULVER ST.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ACI-10-3(214)	28	62	

DATE FOR THE CONSULTING ENGINEER
DESIGN: MKM DRAWN: SLO CHECKED: G.G. / R.B.
GREINER ENGINEERING SCIENCES, INC.

1-10-3 (159) P.E. SHEET NO. 27

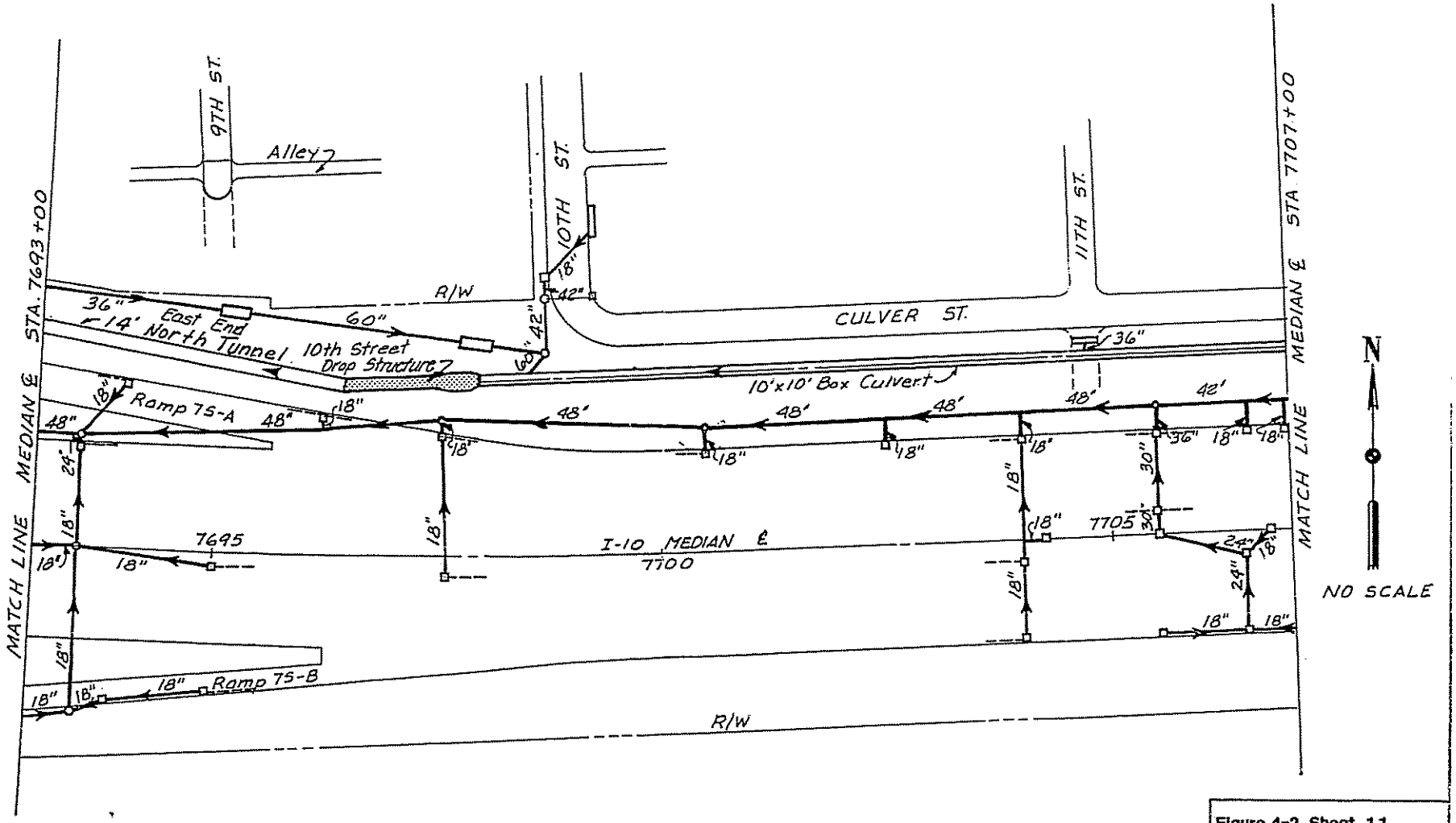
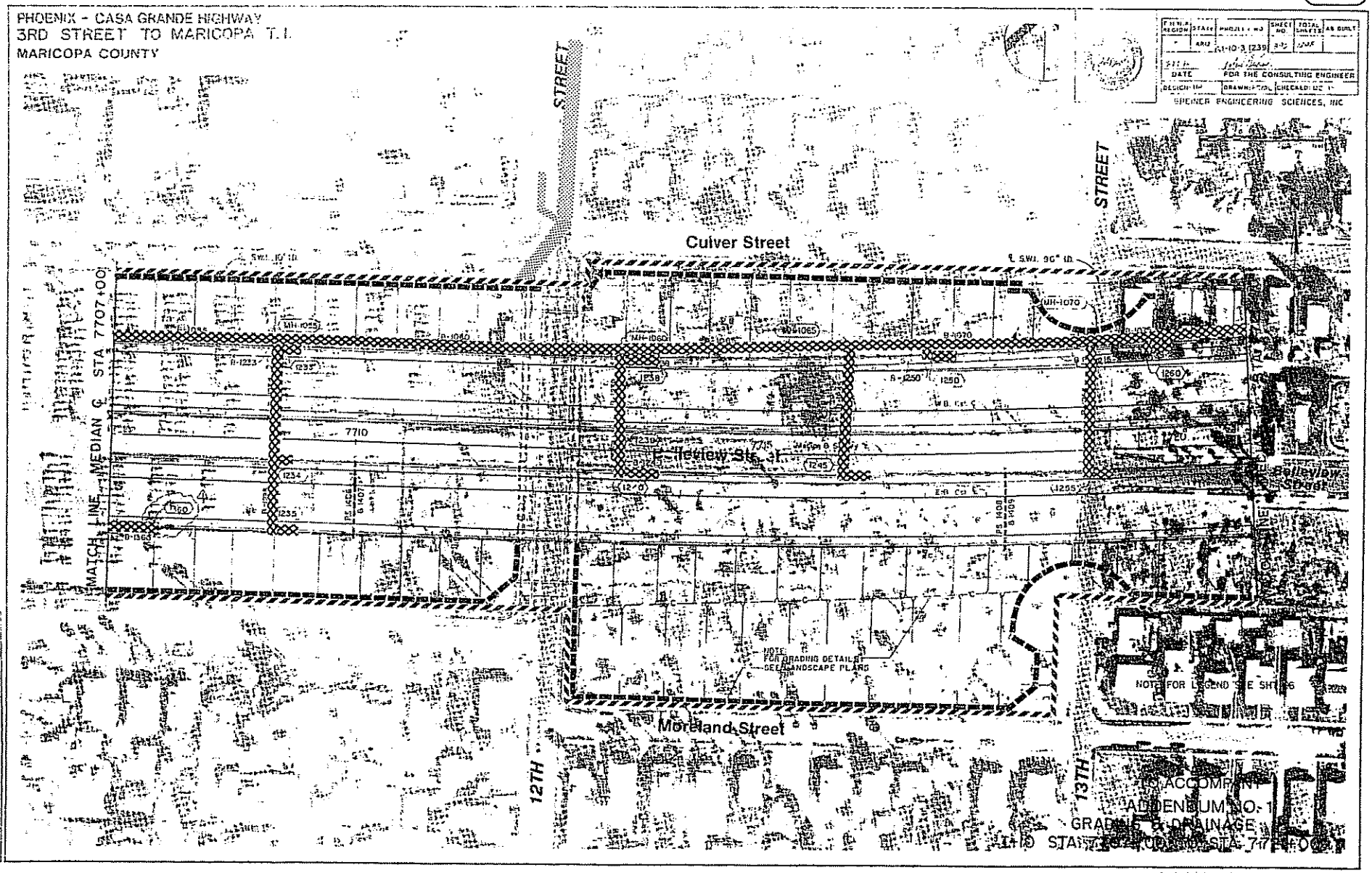


Figure 4-2, Sheet 11
Inner Loop Drainage System
9th St. - 11th St.

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY



FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
-	ARIZ	I-10-3 (239)	3-72	1245	

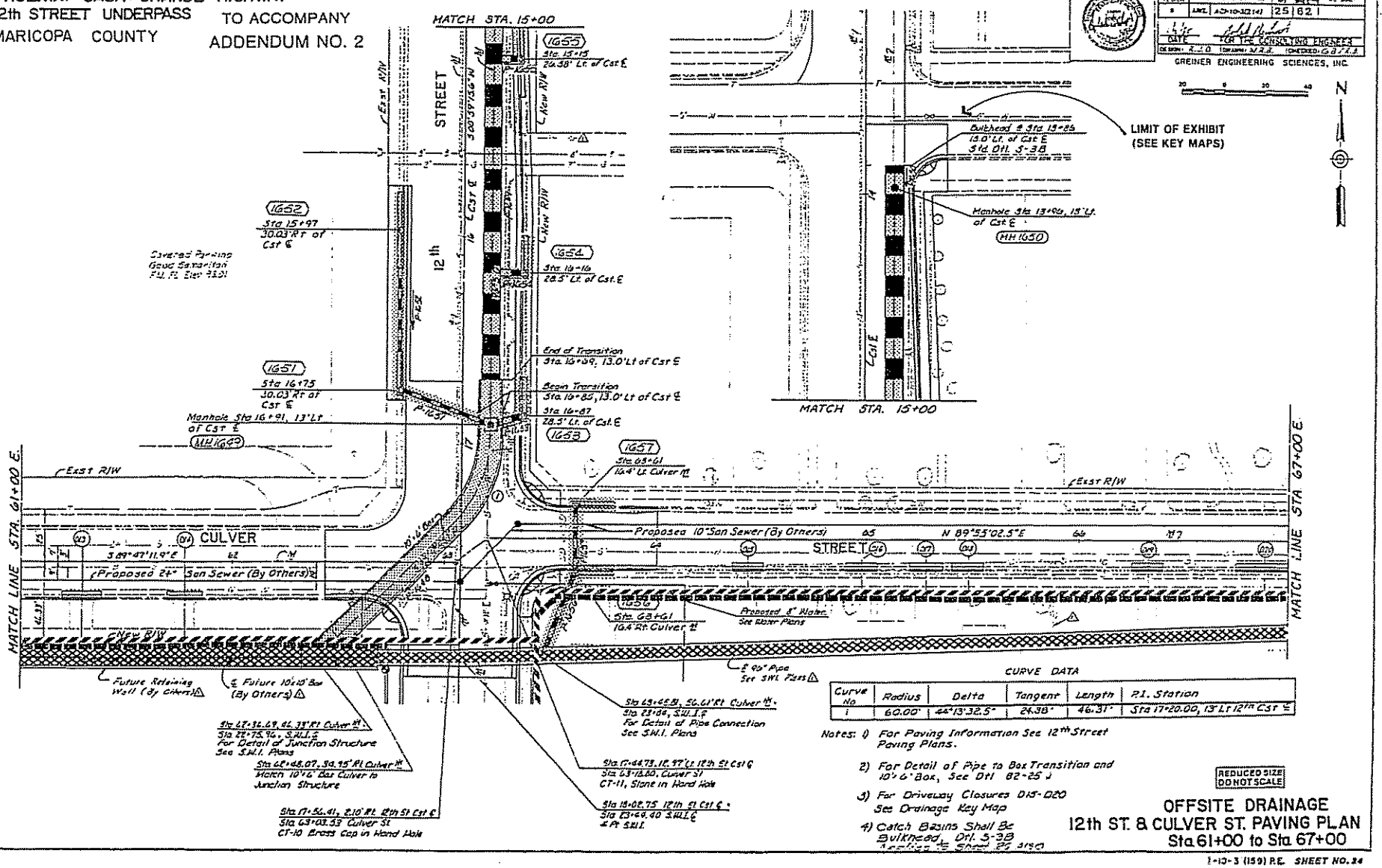
DATE FOR THE CONSULTING ENGINEER
DESIGN: DRAWN: CHECKED:
SPEINER ENGINEERING SCIENCES, INC

NO.	REVISIONS	BY	DATE
1	ADD CO. 1360	UP	5/23/86

I-10-3 (159) P.E. SHEET NO. 100

PHOENIX.- CASA. GRANDE HIGHWAY
12th STREET UNDERPASS
MARICOPA COUNTY

TO ACCOMPANY
ADDENDUM NO. 2



CURVE DATA

Curve No	Radius	Delta	Tangent	Length	P.I. Station
1	60.00'	44°13'32.5"	24.38'	46.31'	Sta 17+20.00, 13' Lt 12th Cst ℄

Notes: 1) For Paving Information See 12th Street Paving Plans.

2) For Detail of Pipe to Box Transition and 10'x6' Box, See Dtl 82-25 J

3) For Driveway Closures D15-D20 See Drainage Key Map

4) Catch Basins Shall Be Bulkhead, Dtl. S-3B

REDUCED SIZE DO NOT SCALE

GREINER ENGINEERING SCIENCES, INC.

OFFSITE DRAINAGE
12th ST. & CULVER ST. PAVING PLAN
Sta 61+00 to Sta 67+00

1-13-3 (159) P.E. SHEET NO. 24

REVISED 8-3-93

C-59

PHOENIX-CASA GRANDE HIGHWAY
12TH STREET UNDERPASS
MARICOPA COUNTY

S.W.I. COORDINATE DATA		
STATION	N	E
22+75.96	895,907.456	457,662.855
23+44.40	895,907.721	457,671.274
30+02.95	895,929.640	458,329.446
34+58.88	895,945.160	458,785.110

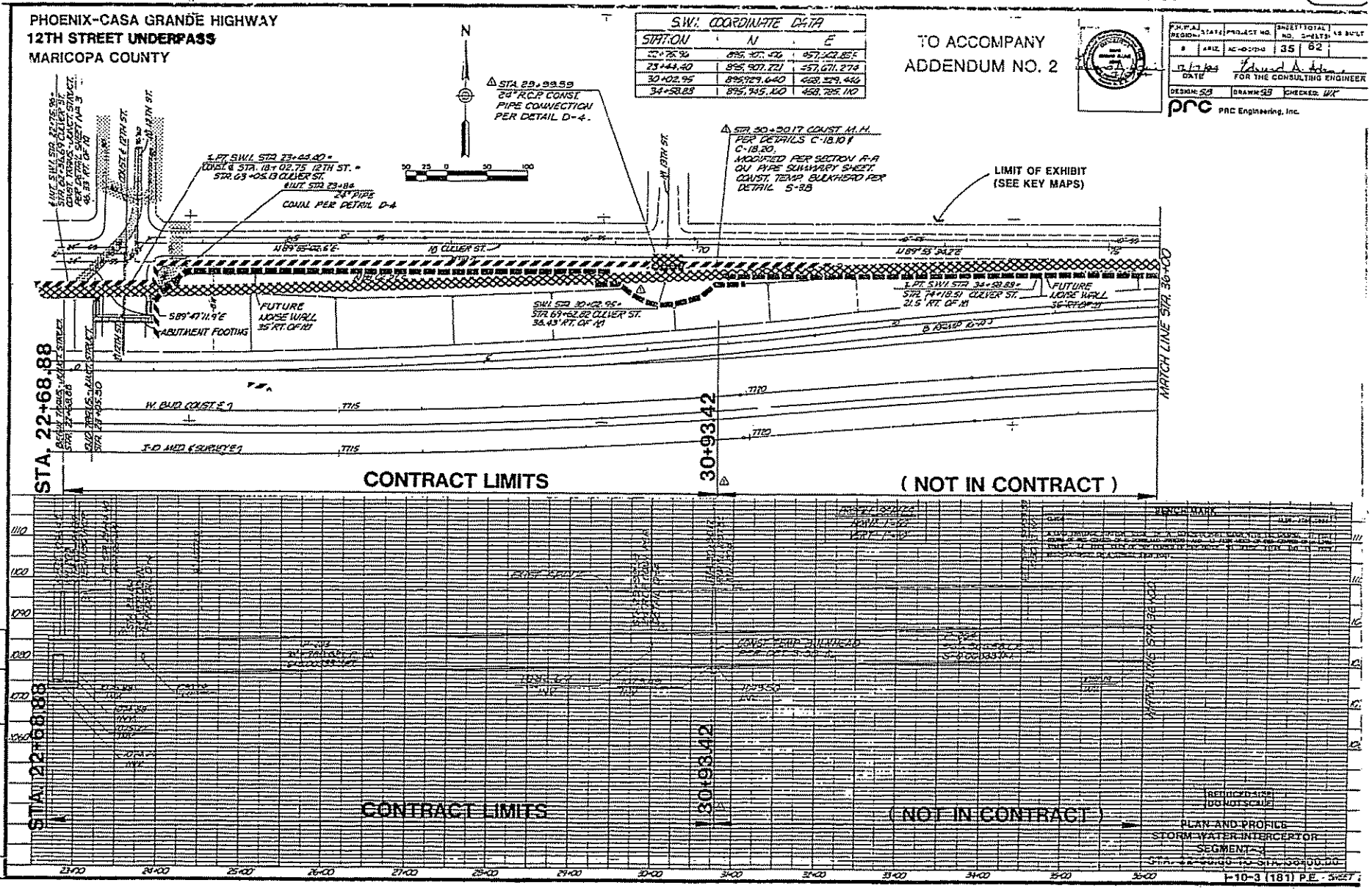
TO ACCOMPANY
ADDENDUM NO. 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
8	ARIZ.	ACHD-0(?)	35	62	

DATE 12/7/94 FOR THE CONSULTING ENGINEER

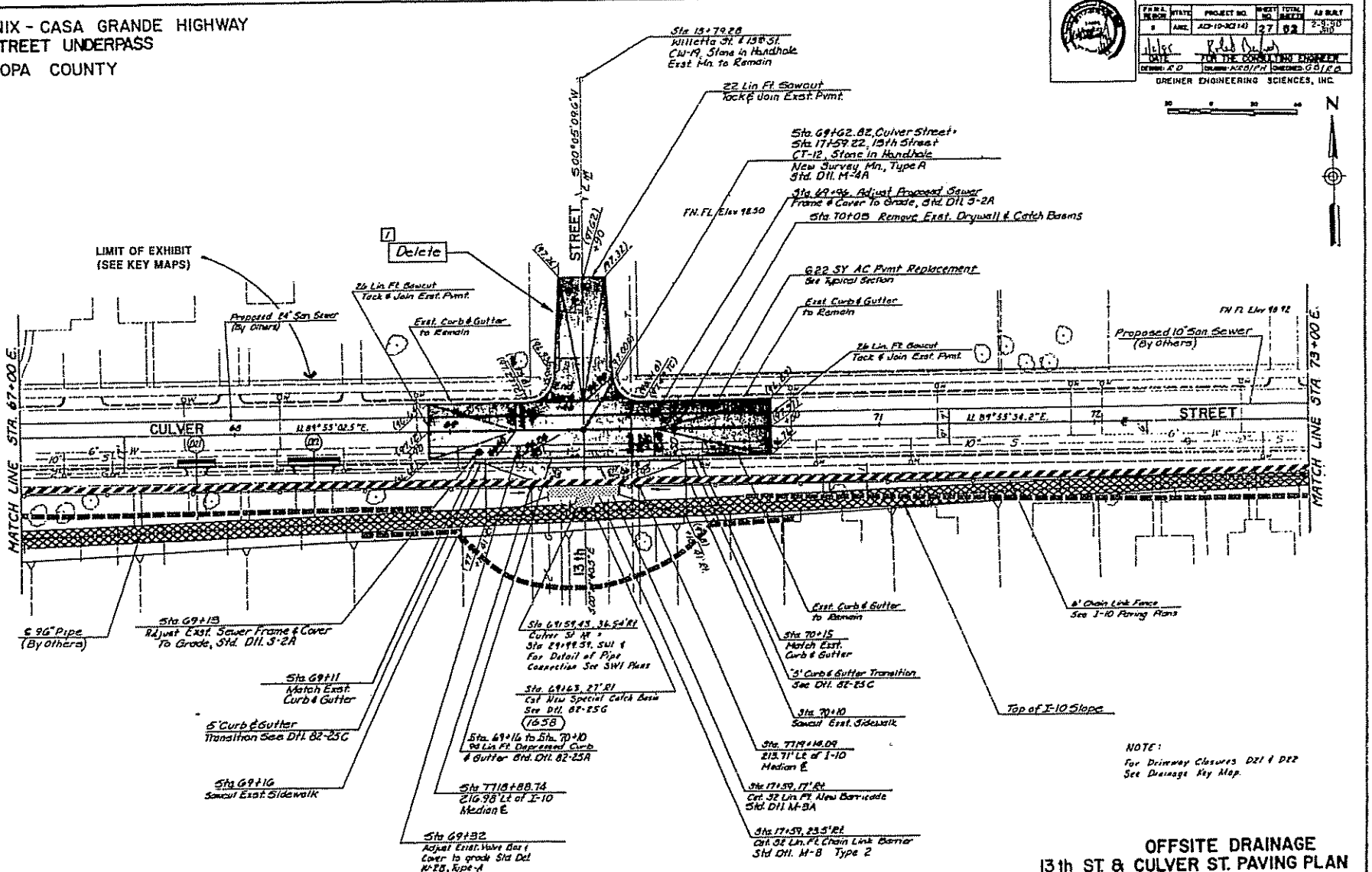
DESIGN: SB DRAWN: SB CHECKED: WK

prc PRC Engineering, Inc.



REVISED 8-3-93

PHOENIX - CASA GRANDE HIGHWAY
12th STREET UNDERPASS
MARICOPA COUNTY



NOTE:
For Driveway Closures D21 & D22
See Drainage Key Map.

OFFSITE DRAINAGE
13th ST. & CULVER ST. PAVING PLAN
Sta 67+00 to Sta 73+00

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ACI-10-3(214)	27	62	2-9-90 JHD

DATE — FOR THE CONSULTING ENGINEER
DESIGN: R.D. — DRAWN: ACB/PH — CHECKED: GB/RB

GREINER ENGINEERING SCIENCES, INC.

I-10-3 (189) P.E. ~~SHEET NO. 26~~

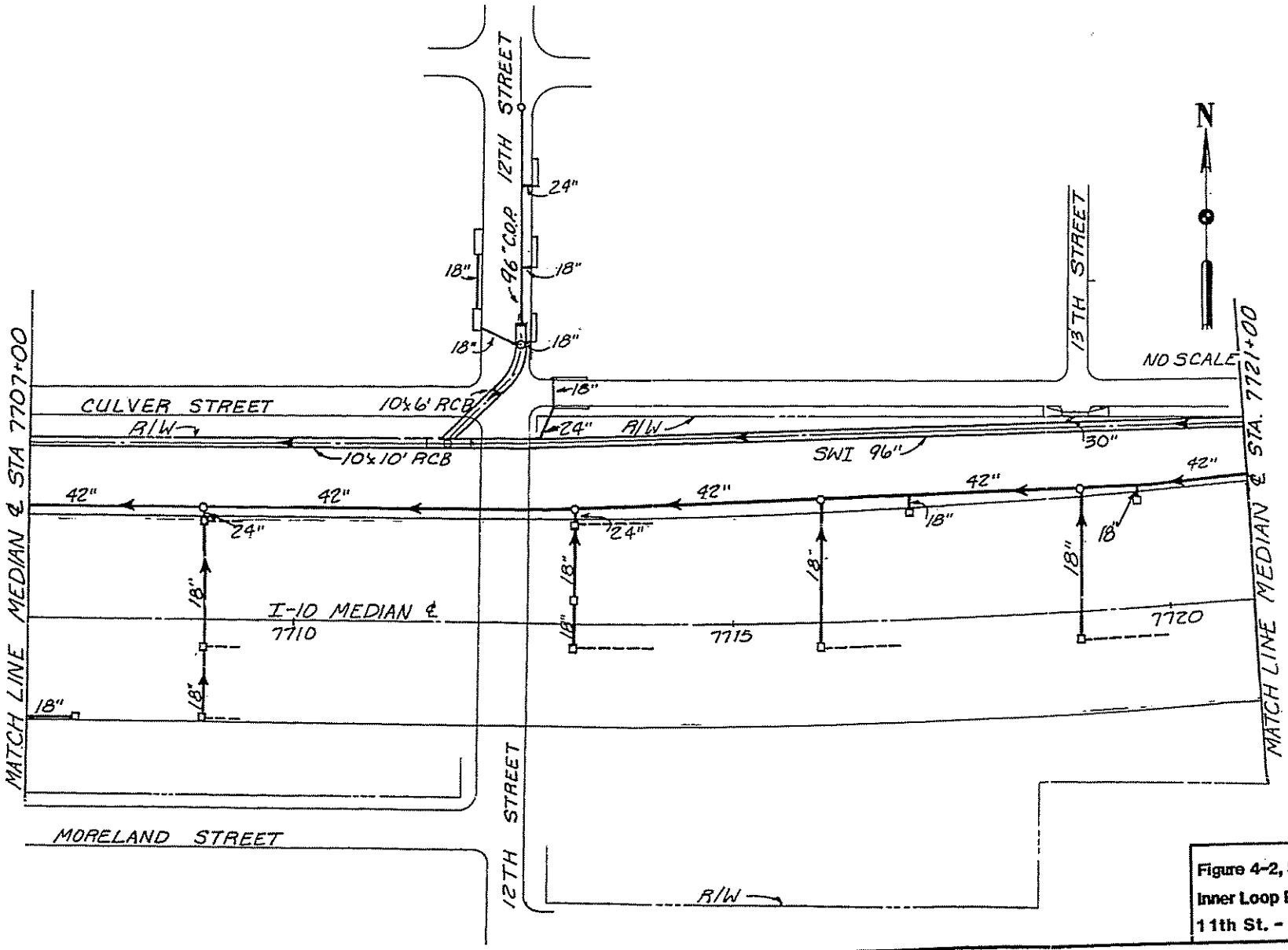


Figure 4-2, Sheet 12
Inner Loop Drainage System
11th St. - 13th St.

REVISED 8-3-93

C-62

PHOENIX - CASA GRANDE HIGHWAY
16th STREET UNDERPASS
MARICOPA COUNTY

FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(215)	30	119	

3/11/95 DATE — FOR THE CONSULTING ENGINEER

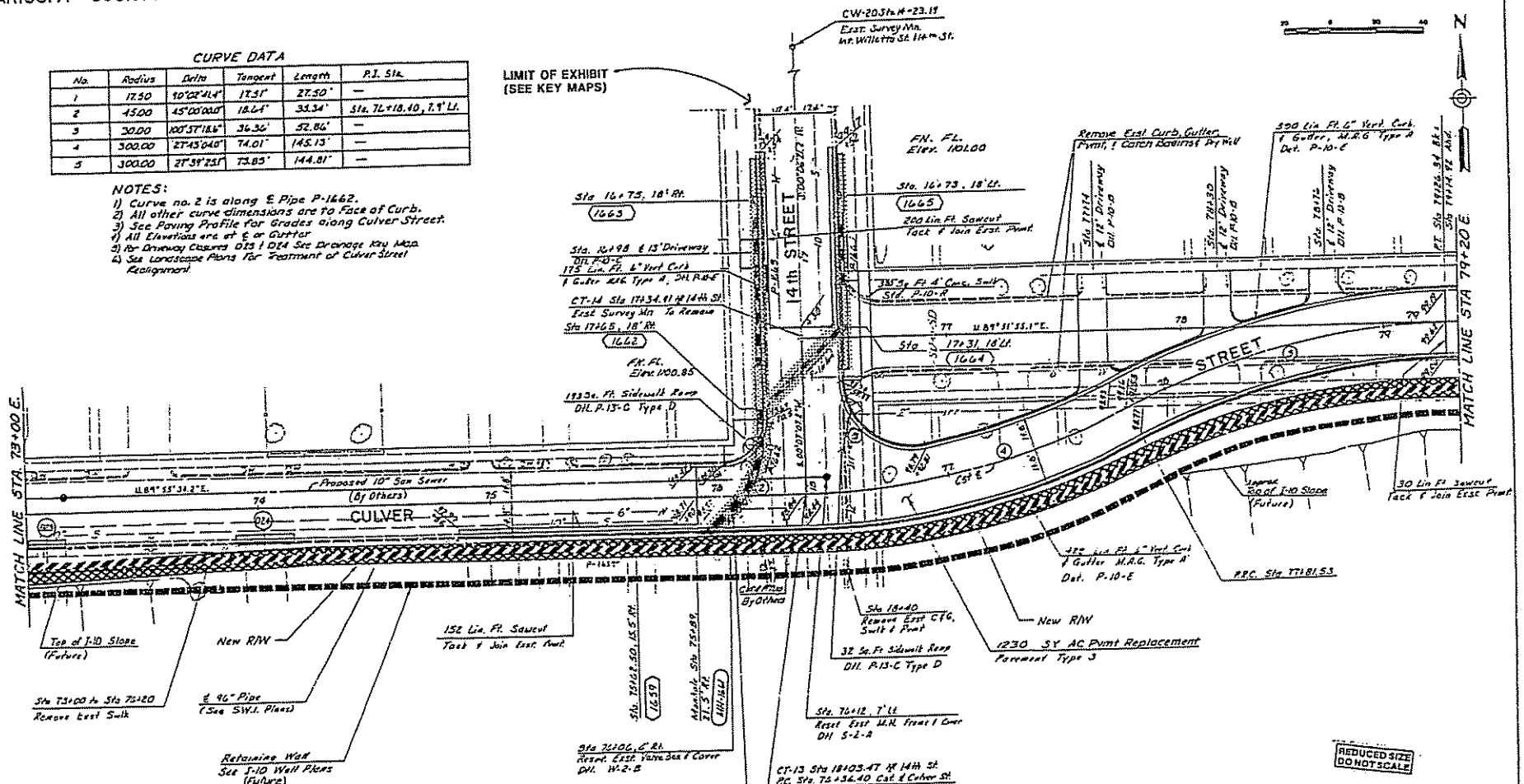
DESIGN: G.E. / M.S. DRAWN: K.H. CHECKED: G.B. / R.B.

GREINER ENGINEERING SCIENCES, INC.

CURVE DATA

No.	Radius	Delta	Tangent	Length	P.I. Sta.
1	17.50	90°02'41.4"	17.51'	27.50'	—
2	45.00	45°00'00.0"	18.64'	33.34'	Sta. 76+18.40, 7.9' Lt.
3	30.00	100°57'18.6"	36.36'	52.86'	—
4	300.00	27°43'04.0"	74.01'	145.13'	—
5	300.00	27°39'25.1"	73.85'	144.81'	—

NOTES:
1) Curve no. 2 is along ℄ Pipe P-1662.
2) All other curve dimensions are to Face of Curb.
3) See Paving Profile for Grades along Culver Street.
4) All Elevations are at ℄ or Gutter
5) For Driveway Closures D23 & D24 See Drainage Key Map.
6) See Landscape Plans for Treatment of Culver Street Realignment.



REDUCED SIZE DO NOT SCALE

OFFSITE DRAINAGE &
14 ST. & CULVER ST. PAVING PLAN
Sta 73+00 to Sta 79+20

I-10-3 (159) P.E. SHEET NO. 27

PHOENIX-CASA GRANDE HIGHWAY
16TH STREET UNDERPASS
MARICOPA COUNTY

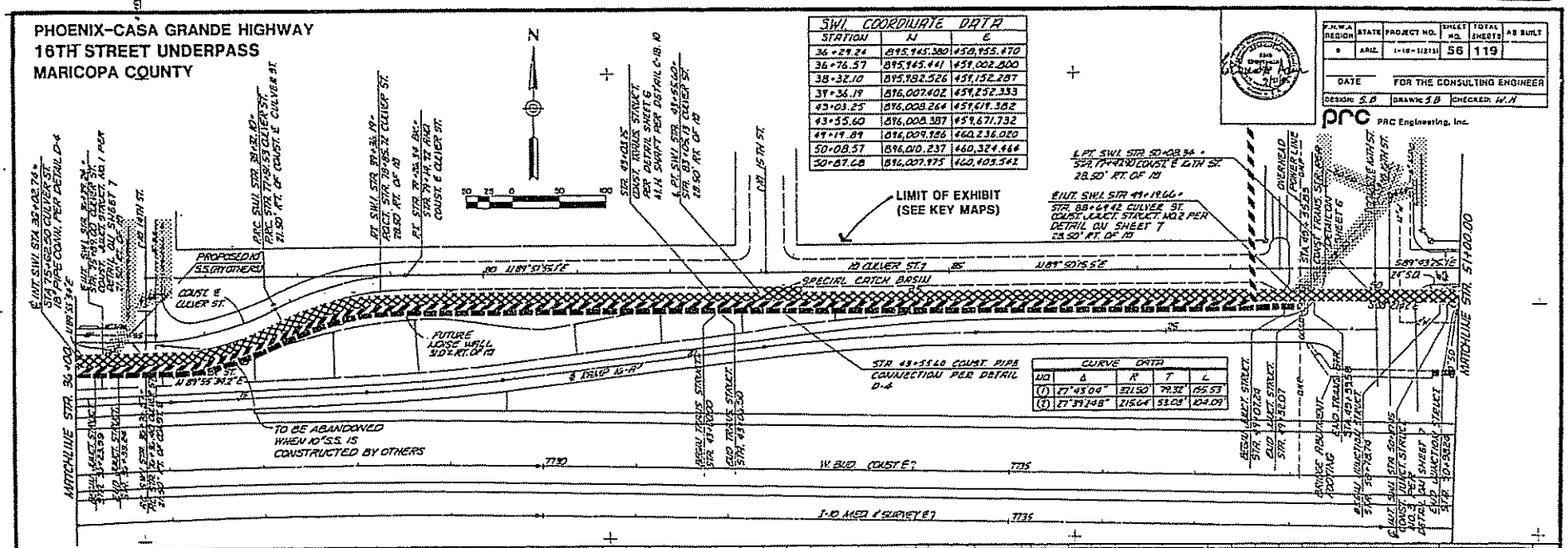
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(181)	56	119	

DATE FOR THE CONSULTING ENGINEER

DESIGN: S.B. DRAWN: S.B. CHECKED: W.H.

PRC Engineering, Inc.

SWI COORDINATE DATA		
STATION	N	E
36+29.24	895,945.380	458,955.470
36+76.57	895,945.441	459,002.800
38+32.10	895,982.526	459,152.287
39+36.19	896,007.402	459,252.333
43+03.25	896,008.264	459,619.382
43+55.60	896,008.387	459,671.732
49+19.89	896,009.986	460,236.020
50+08.57	896,010.237	460,324.466
50+87.68	896,007.975	460,403.542



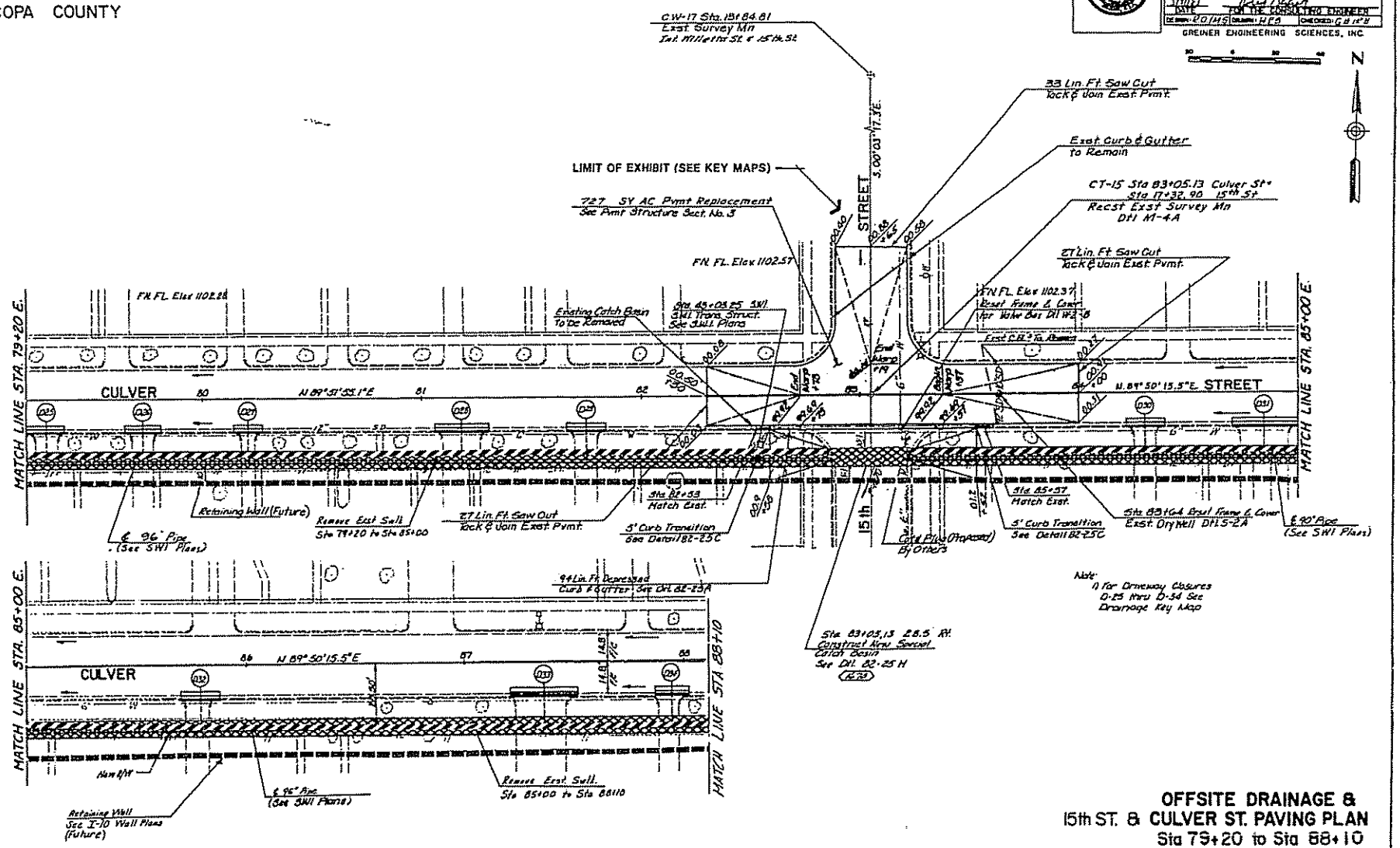
CURVE DATA				
NO.	Δ	R	T	L
(1)	27°43'08"	371.50'	79.32'	155.53
(2)	27°39'48"	215.04'	53.05'	104.09'

DATE	BY	REVISIONS	NO.

REVISED 8-3-93

C-64

PHOENIX - CASA GRANDE HIGHWAY
16th STREET UNDERPASS
MARICOPA COUNTY



OFFSITE DRAINAGE &
15th ST. & CULVER ST. PAVING PLAN
Sta 79+20 to Sta 88+10

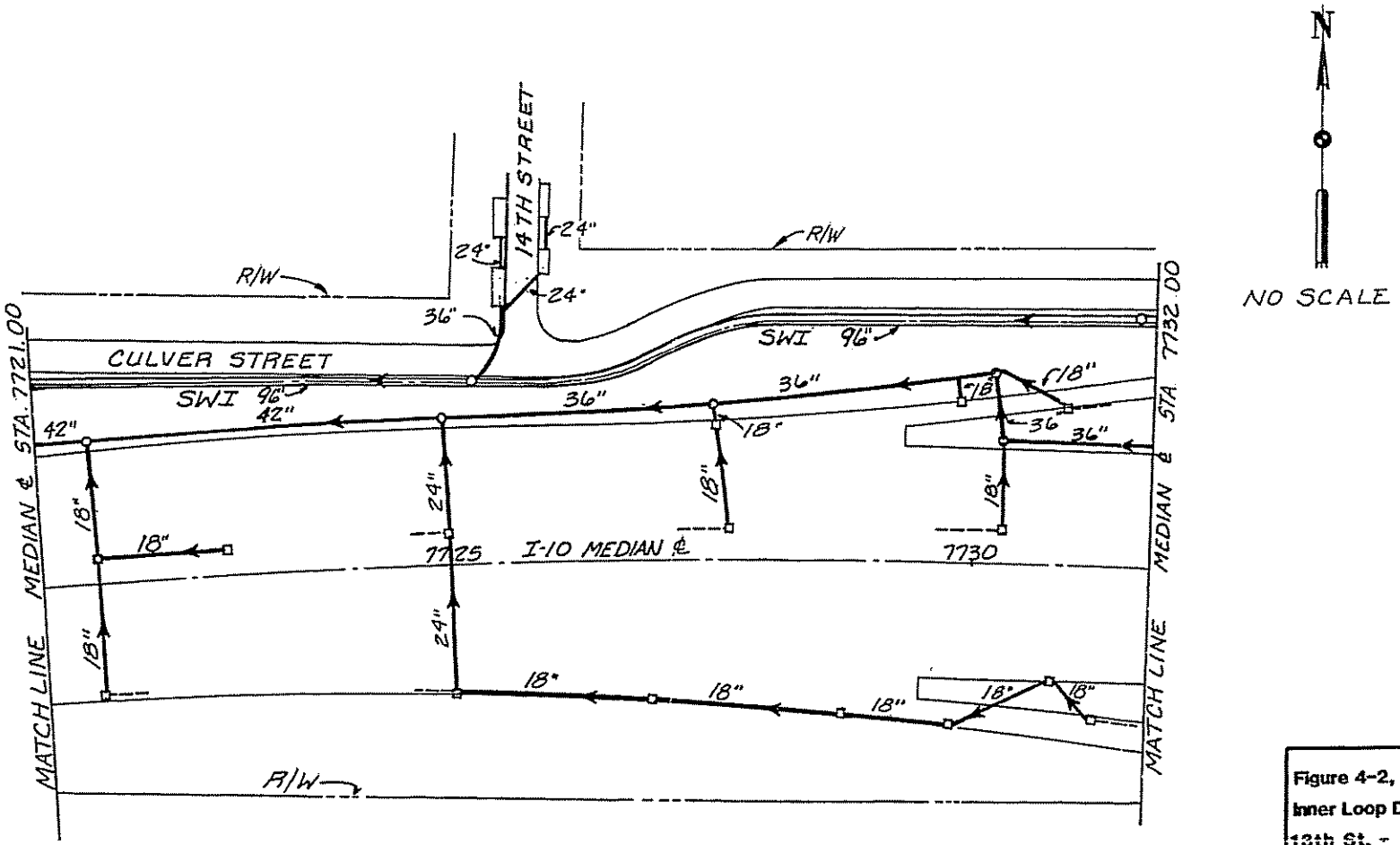


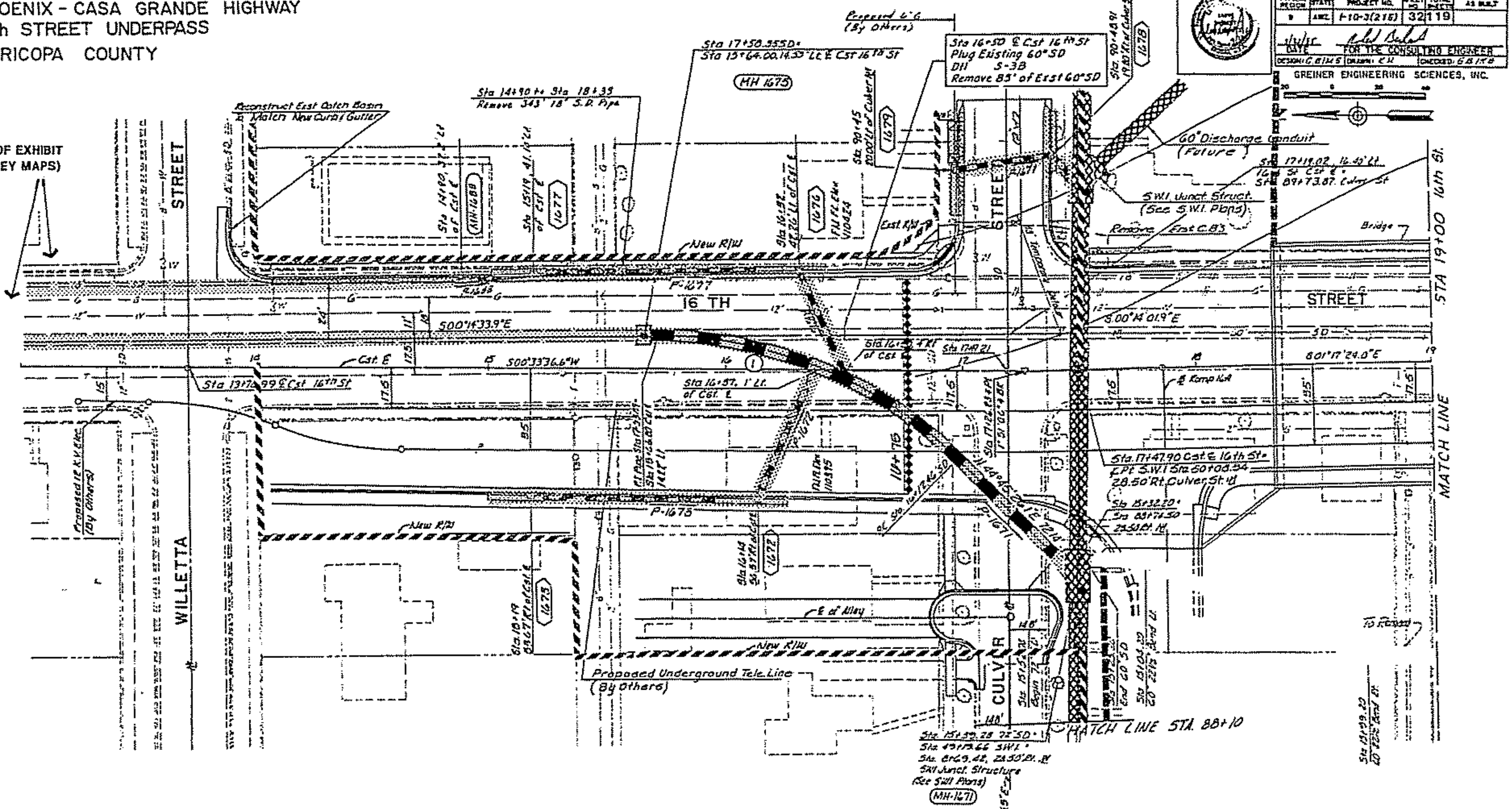
Figure 4-2, Sheet 13
Inner Loop Drainage System
13th St. - 15th St.

REVISED 8-3-93

C-66

PHOENIX - CASA GRANDE HIGHWAY
16th STREET UNDERPASS
MARICOPA COUNTY

LIMIT OF EXHIBIT
(SEE KEY MAPS)



CURVE DATA

	Δ	R	T	L	P.I. Sta
1	45°01'02"	150.00	74.59	[illegible]	Sta 16+42.95, 14.55' Lt. 16th St. Cst E

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-10-3(218)	32	119	

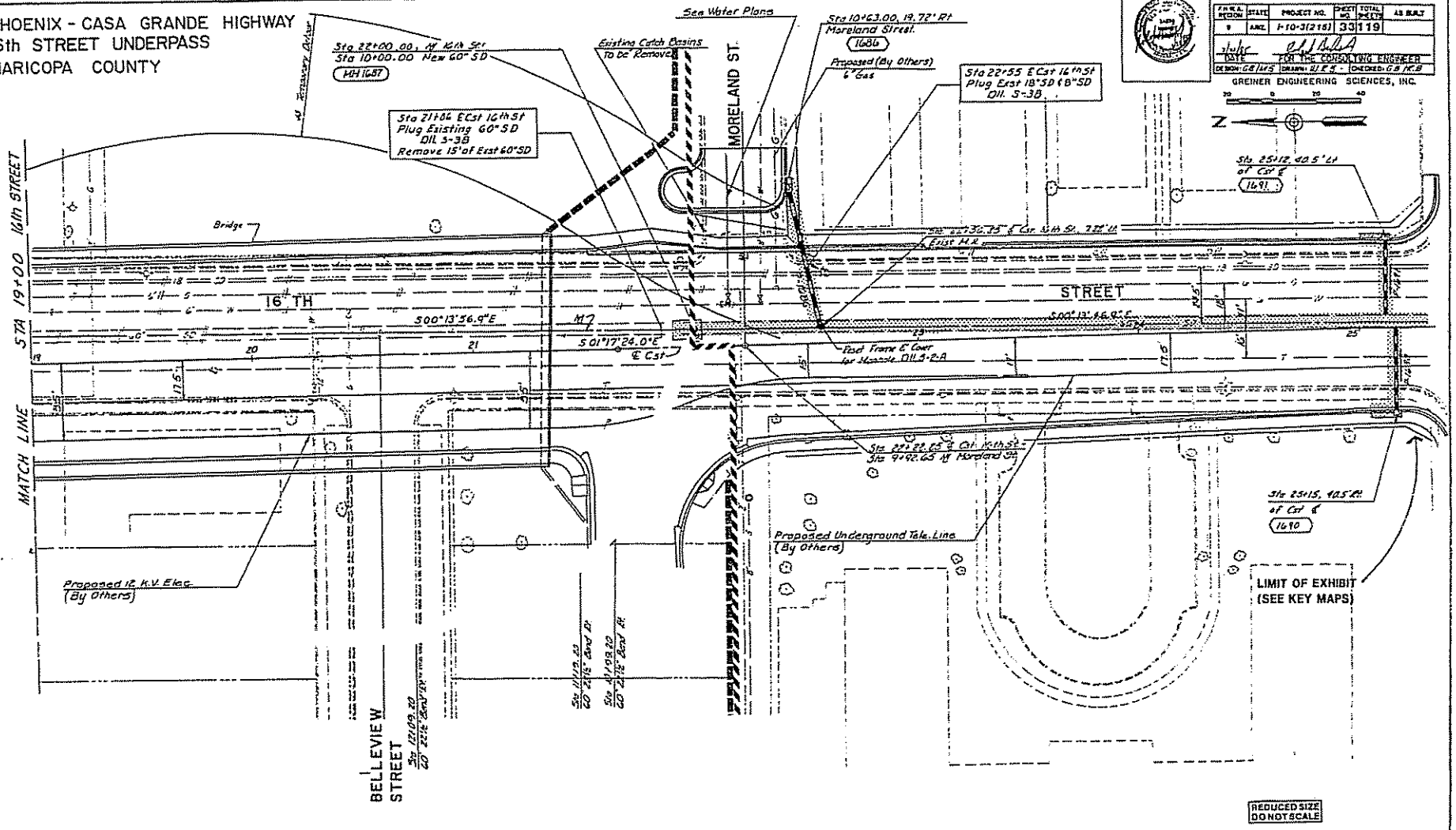
FOR THE CONSULTING ENGINEER
GREINER ENGINEERING SCIENCES, INC.

REDUCED SIZE
DO NOT SCALE

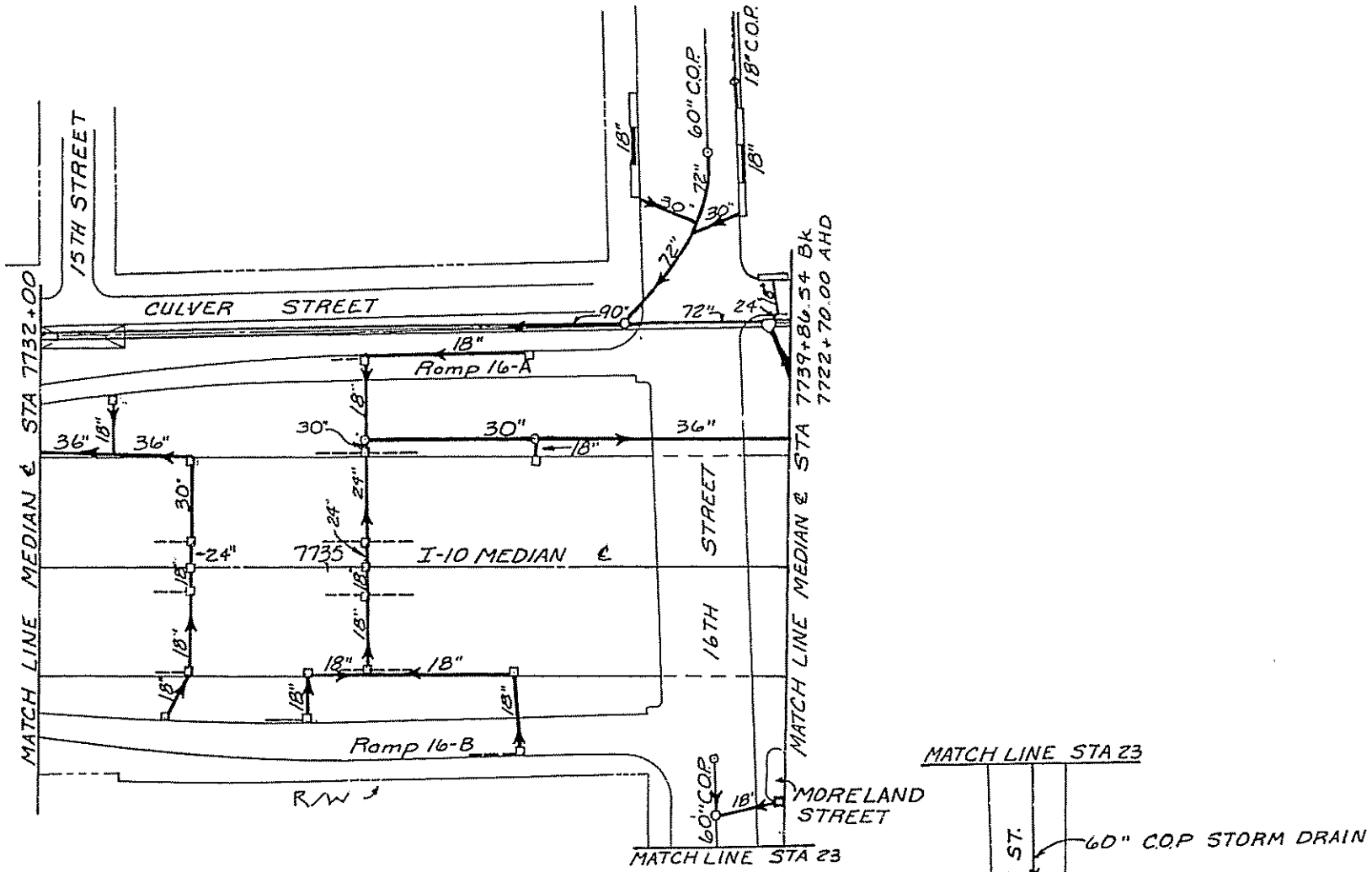
OFFSITE DRAINAGE
16TH STREET
STA 14+30 TO STA 19+00

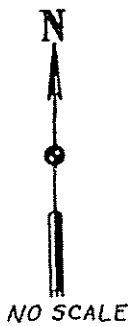
I-10-3 (189) P.E. SHEET NO. 29

PHOENIX - CASA GRANDE HIGHWAY
16th STREET UNDERPASS
MARICOPA COUNTY



OFFSITE DRAINAGE
16TH STREET
STA. 19+00 TO STA. 25+00





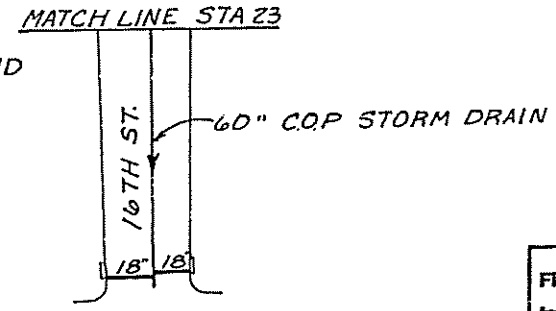


Figure 4-2, Sheet 14
Inner Loop Drainage System
15th St. - 16th St.

DRAINAGE

MAINTENANCE EXHIBIT

I-10 Segment D

I-10/Squaw Peak/ Red Mountain T.I.

This exhibit defines the areas of maintenance responsibility for the Arizona Department of Transportation and the City of Phoenix. The delineated areas apply to the responsibilities for maintenance of stormwater drainage facilities.

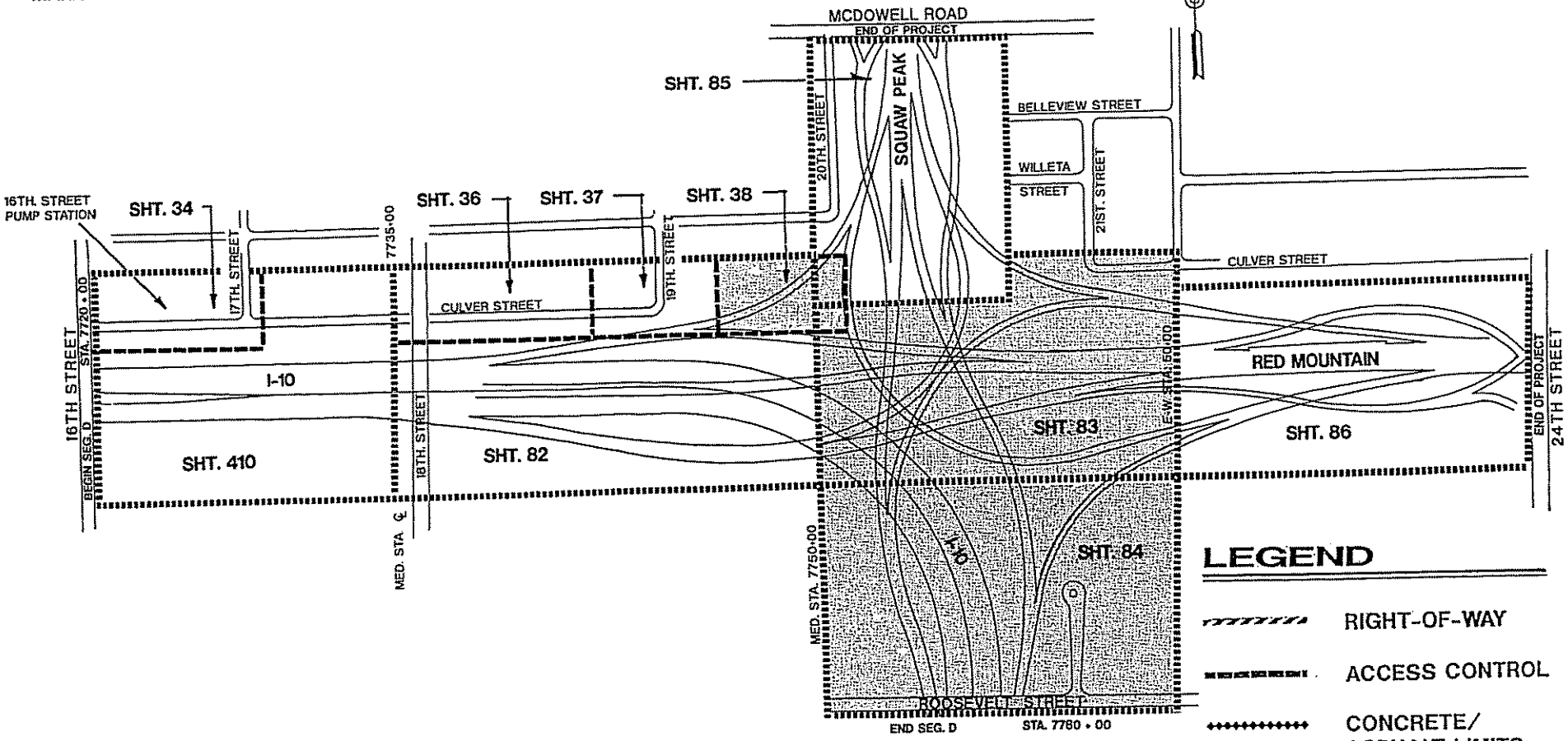
REVISED 8-3-93

City of Phoenix Maintained Facilities

Department of Transportation Maintained Facilities

D-1

PHOENIX - CASA GRANDE HIGHWAY
16TH STREET TO ROOSEVELT STREET
MARICOPA COUNTY



LEGEND

- RIGHT-OF-WAY
- ACCESS CONTROL
- CONCRETE/ ASPHALT LIMITS

SHEETS WITH ADOT MAINTENANCE ONLY
(NOT INCLUDED IN THIS EXHIBT)

REDUCED SIZE
DO NOT SCALE

KEY MAP
STA 7720 + 00
TO STA 7765 + 00

REVISED 8-3-93

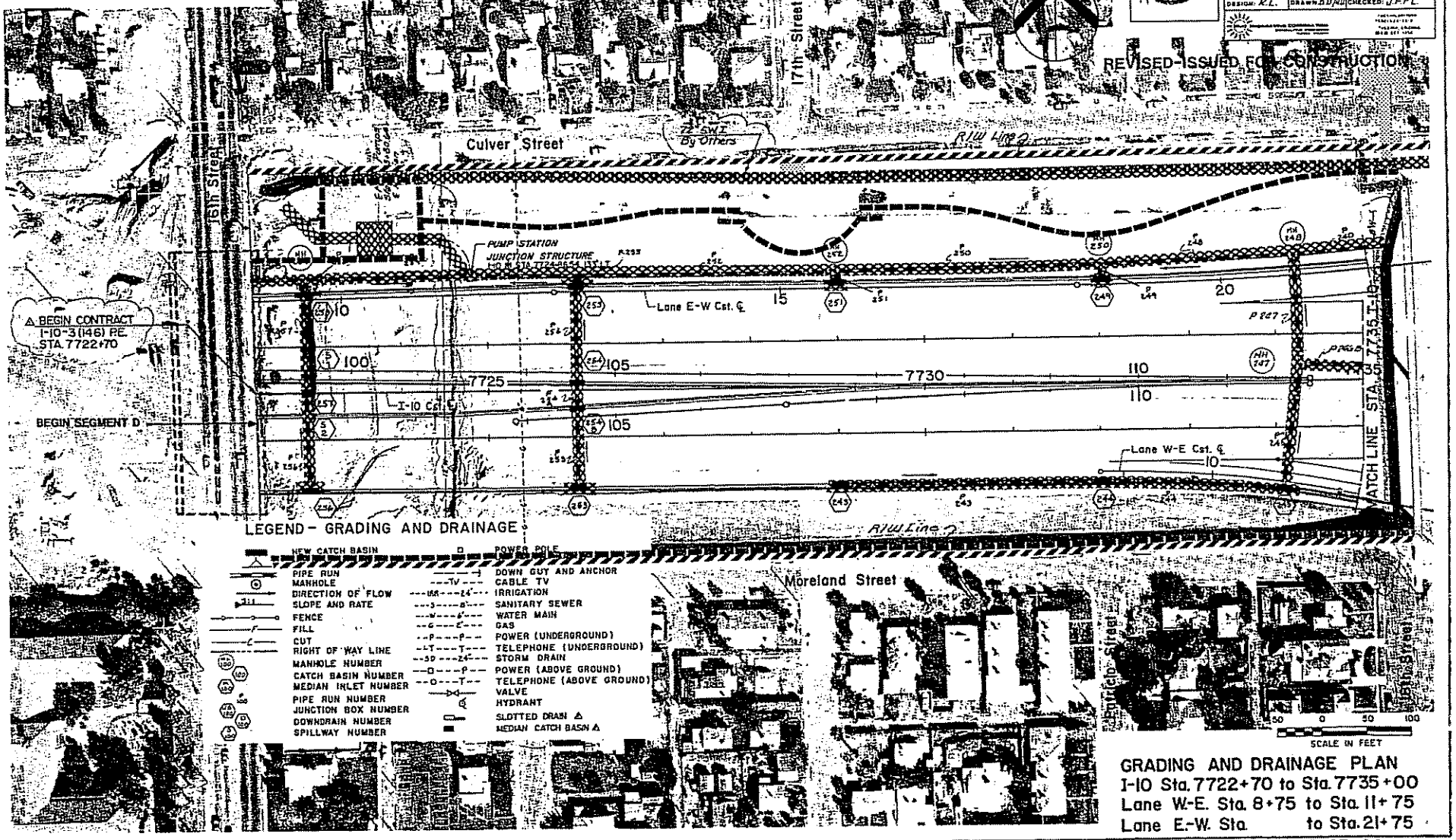
D-2

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET - MARICOPA T.I.
MARICOPA COUNTY

FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	AZ-I-10-3(136)	410	1248	

DATE FOR THE CONSULTING ENGINEER
DESIGN: K.L. DRAWN: B.D.W. CHECKED: J.F.F.L.

REVISED-ISSUED FOR CONSTRUCTION



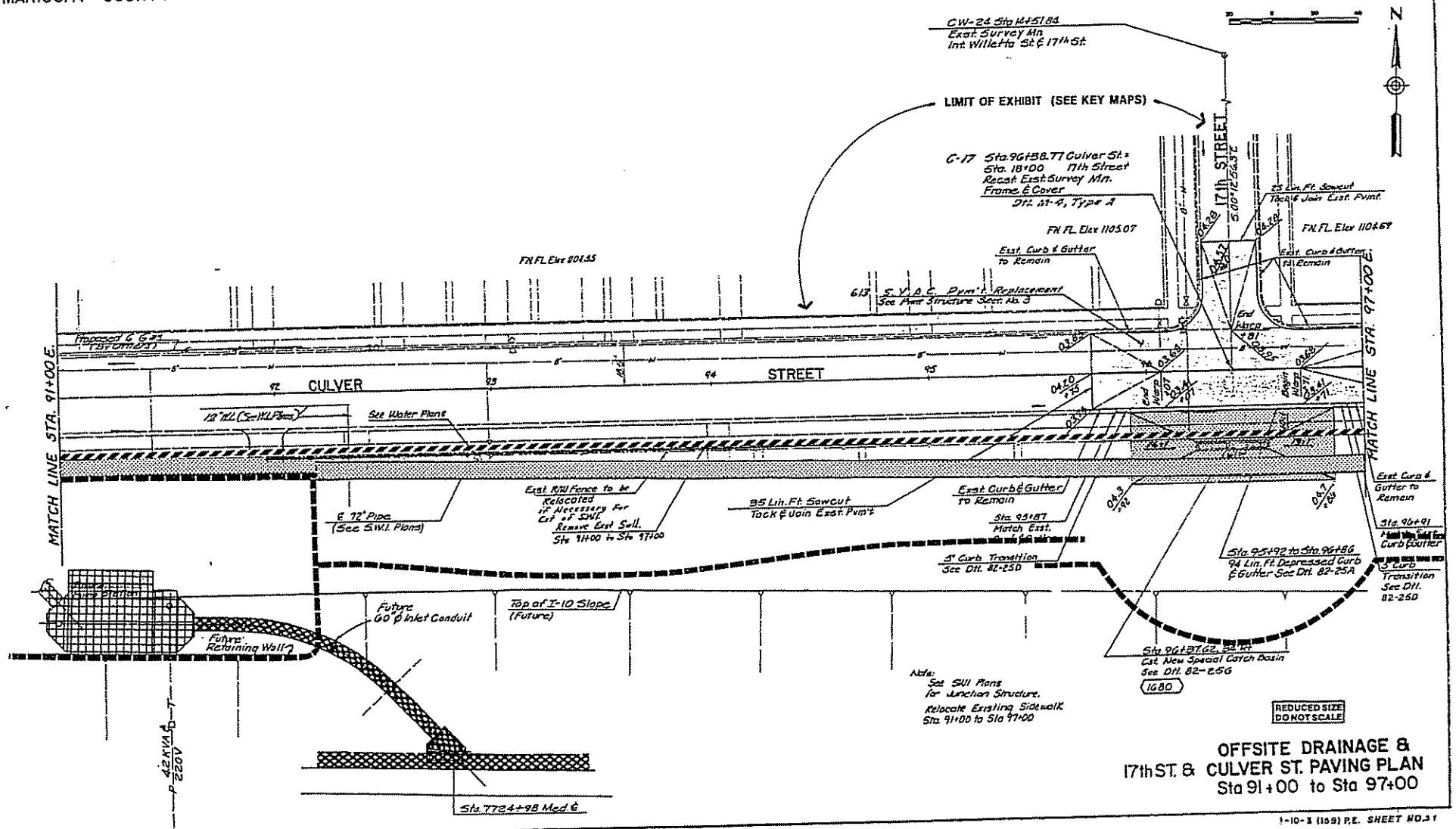
GRADING AND DRAINAGE PLAN
I-10 Sta. 7722+70 to Sta. 7735+00
Lane W.-E. Sta. 8+75 to Sta. 11+75
Lane E.-W. Sta. to Sta. 21+75

D-3

PHOENIX - CASA GRANDE HIGHWAY
16th STREET UNDERPASS
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(216)	34	119	

2/21/85 DATE — FOR THE CONSULTING ENGINEER
DESIGN: ED/MS DRAWN: MRB CHECKED: GB/RB
GREINER ENGINEERING SCIENCES, INC.



OFFSITE DRAINAGE &
17th ST. & CULVER ST. PAVING PLAN
Sta 91+00 to Sta 97+00

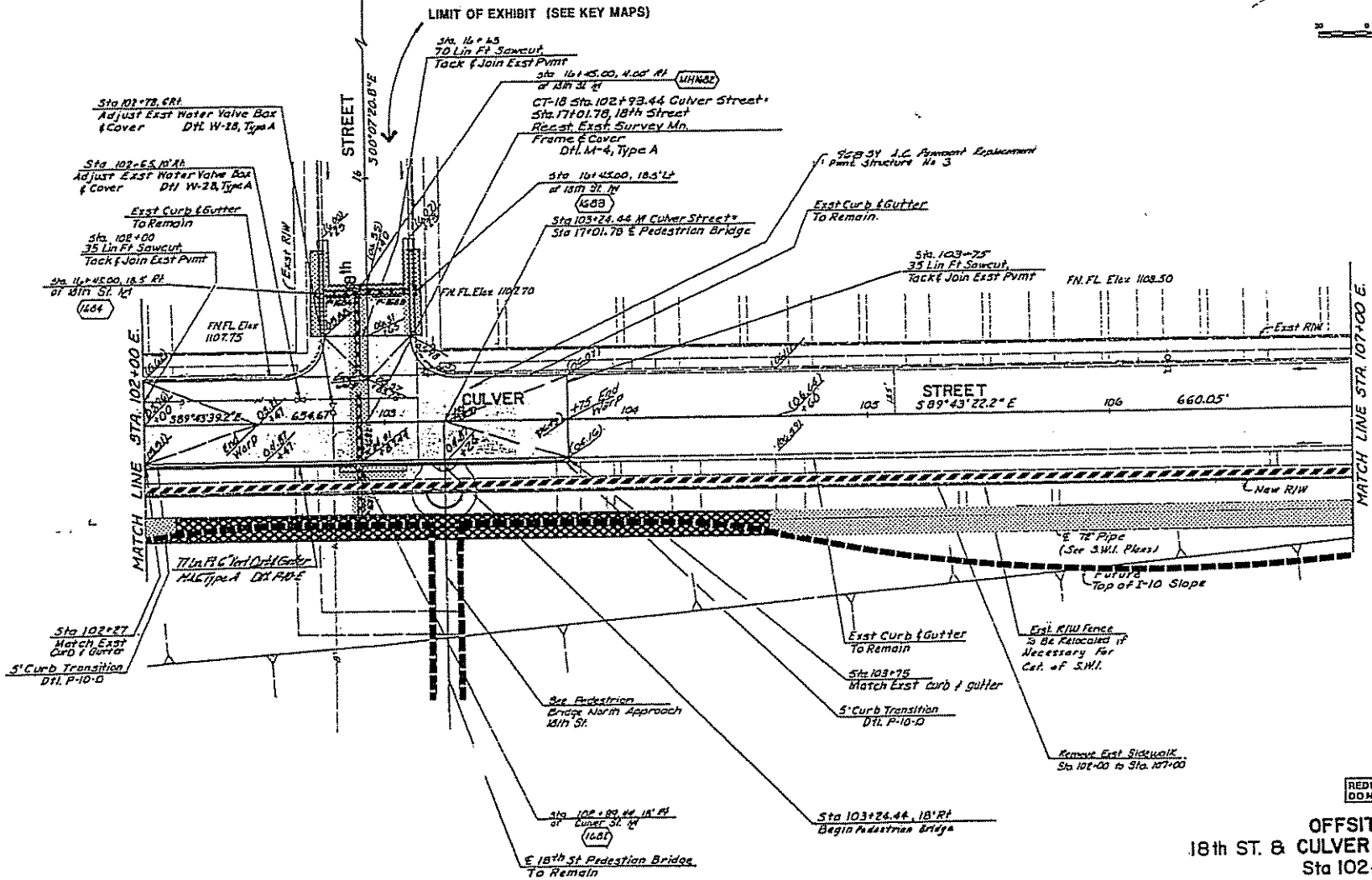
I-10-3 (159) P.E. SHEET NO. 31

D-4

PHOENIX - CASA GRANDE HIGHWAY
16th STREET UNDERPASS
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(218)	36	119	

DATE — FOR THE CONSULTING ENGINEER
DESIGNED G.B./M.A. DRAWN: L.H. CHECKED G.B./R.D.
GREINER ENGINEERING SCIENCES, INC.



Note:
1) See SWI Plans
For Junction
Structure

REDUCED SIZE
DO NOT SCALE

OFFSITE DRAINAGE & 18th ST. & CULVER ST. PAVING PLAN
Sta 102+00 to Sta 107+00

I-10-3 (159) P.E. SHEET NO. 33

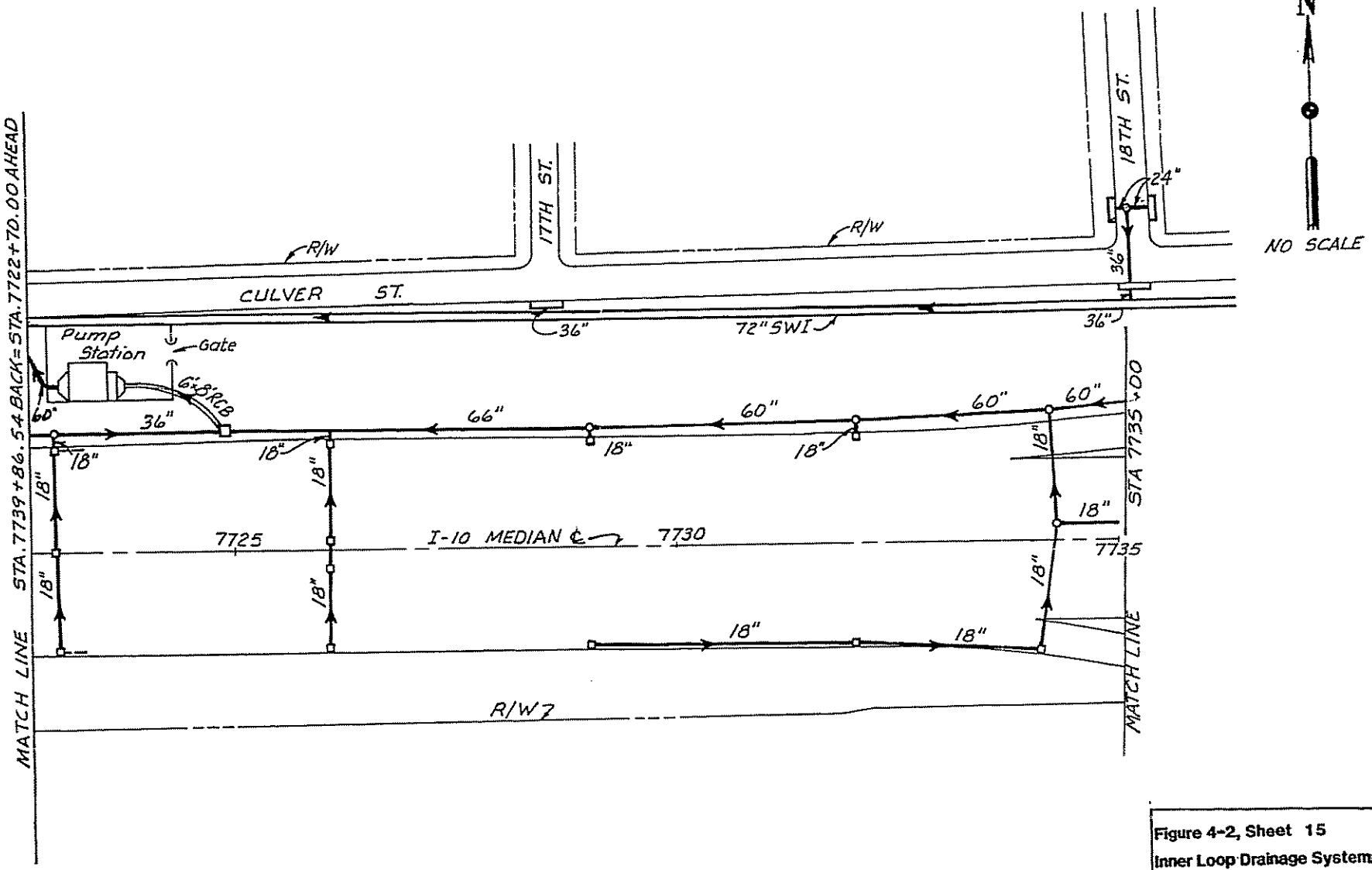
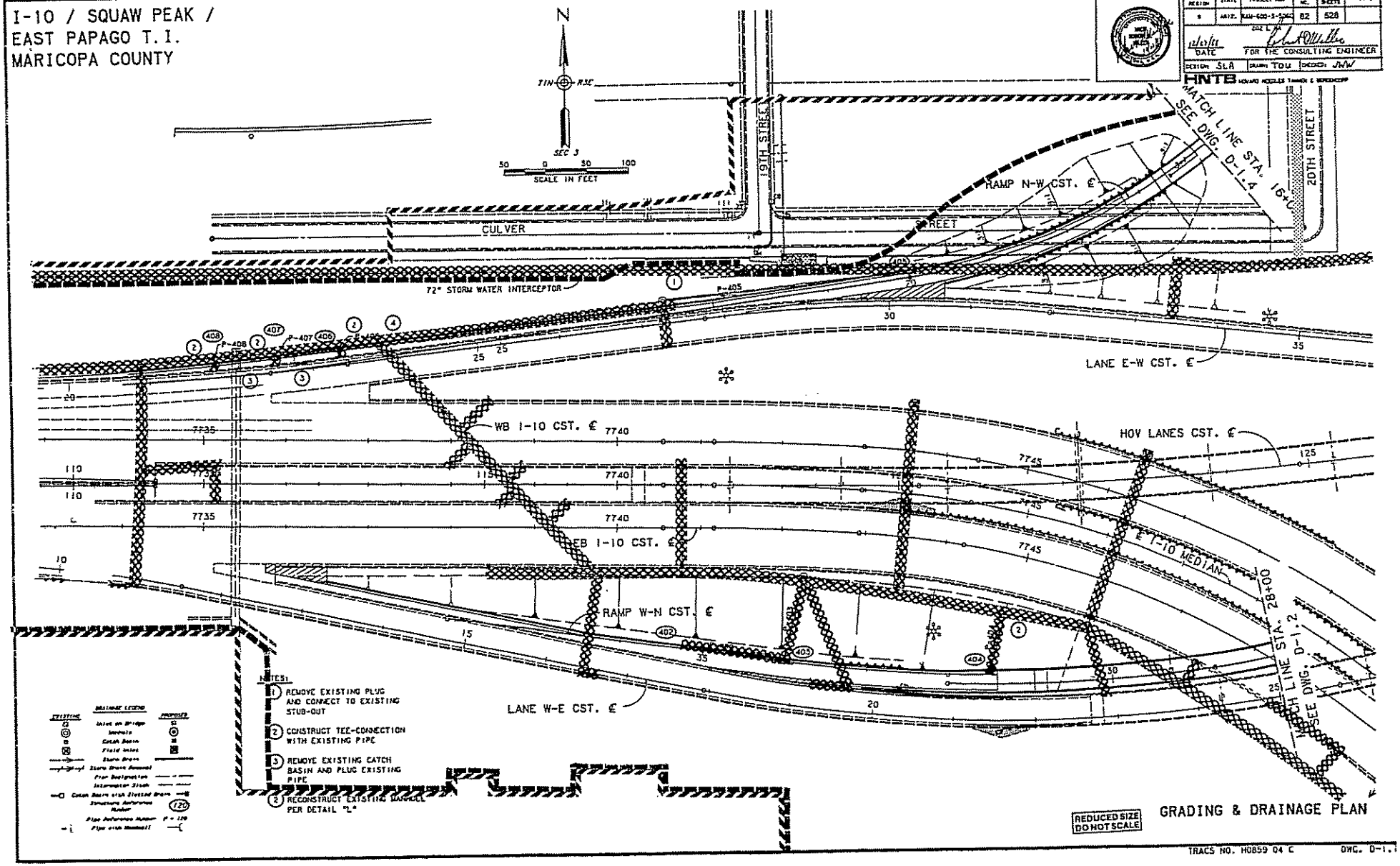


Figure 4-2, Sheet 15
Inner Loop Drainage System
16th St. - 18th St.

REVISED 8-3-93

D-6

I-10 / SQUAW PEAK /
EAST PAPAGO T.I.
MARICOPA COUNTY



GRADING & DRAINAGE PLAN

F.A.H.P.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	[illegible]	82	528	

DATE 1/10/94
FOR THE CONSULTING ENGINEER
DESIGN SLA DRAWN TOJ CHECKED JNW
HNTB

TRACS NO. H0859 04 C DWG. D-1.1

REVISED 8-3-93

D-7

PHOENIX - CASA GRANDE HIGHWAY
16th STREET UNDERPASS
MARICOPA COUNTY

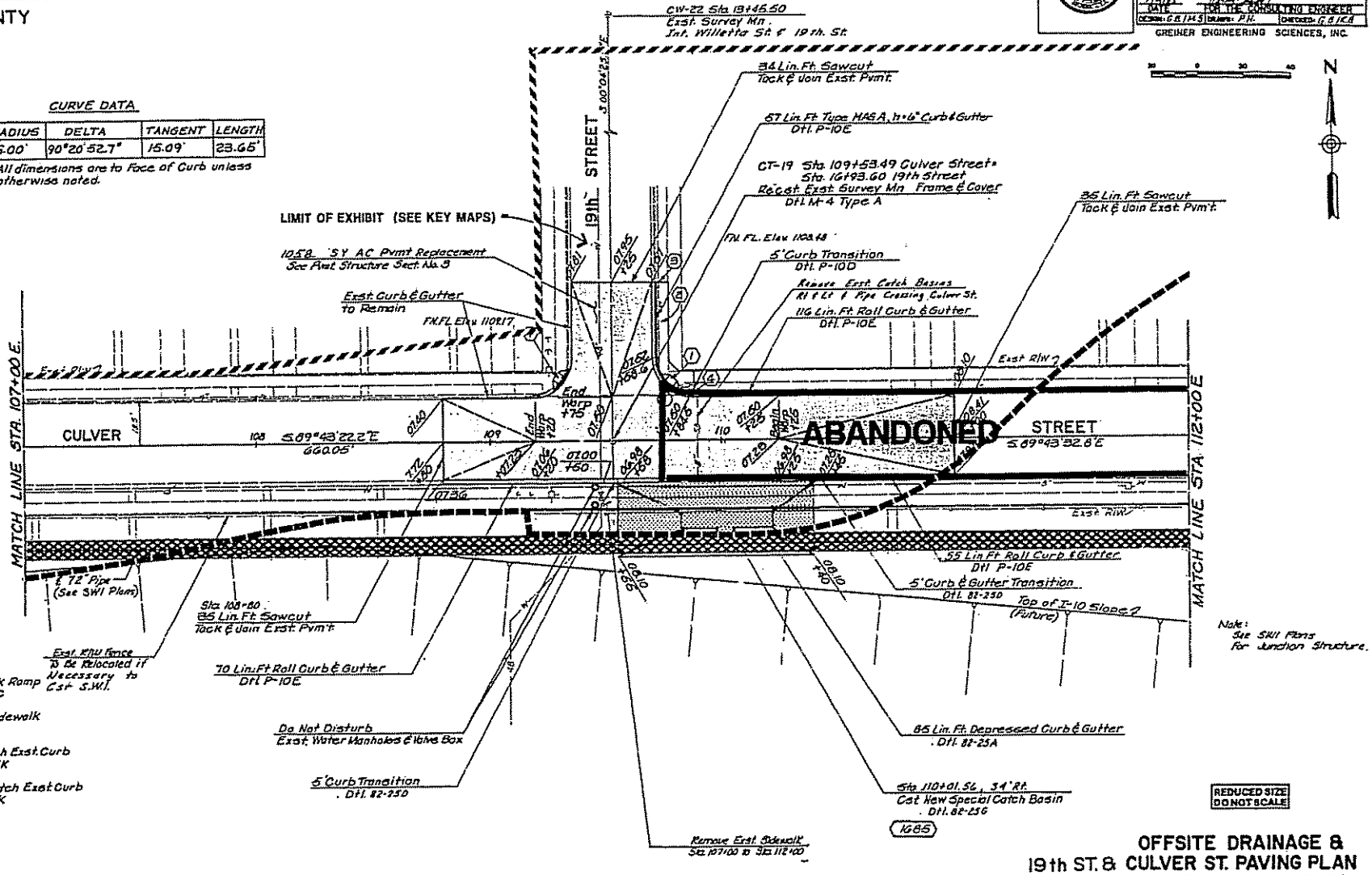
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-3(218)	37	119	

DATE — FOR THE CONSULTING ENGINEER
DESIGNED: G.B./M.S. DRAWN: P.H. CHECKED: G.B./K.B.
GREINER ENGINEERING SCIENCES, INC.

CURVE DATA

NO.	RADIUS	DELTA	TANGENT	LENGTH
1	15.00'	90°20'52.7"	15.09'	23.65'

Note: All dimensions are to Face of Curb unless otherwise noted.



(1) 146 Sq. Ft. Sidewalk Ramp Type B, Detail P-13-C

(2) 135 S.F. 4" Conc. Sidewalk Detail P-10-A

(3) Sta. 16+25.00 Match Exist. Curb & Gutter & Sidewalk

(4) Sta. 109+84.50 Match Exist. Curb & Gutter & Sidewalk

OFFSITE DRAINAGE &
19th ST. & CULVER ST. PAVING PLAN
Sta 107+00 to Sta 112+00

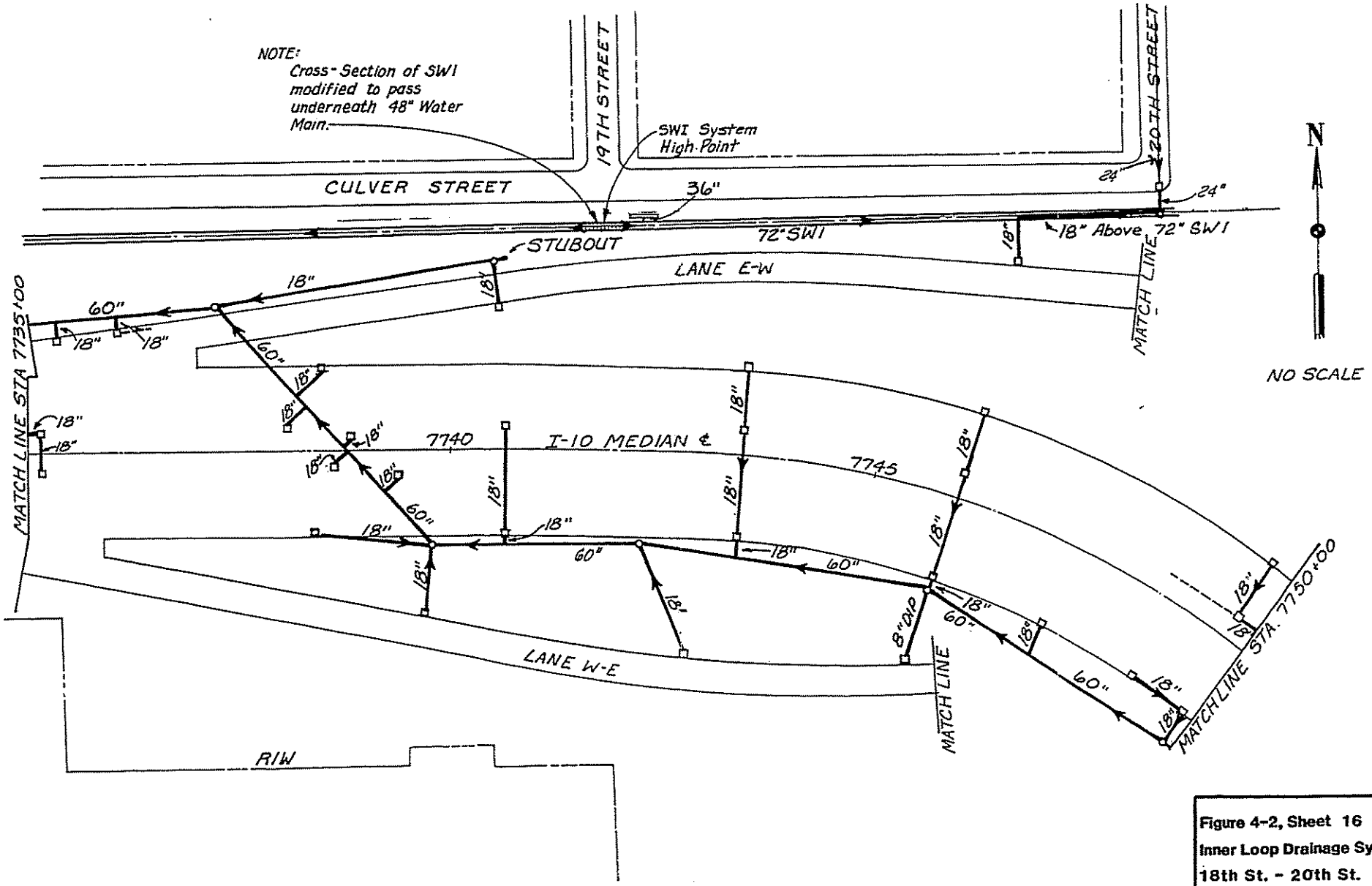
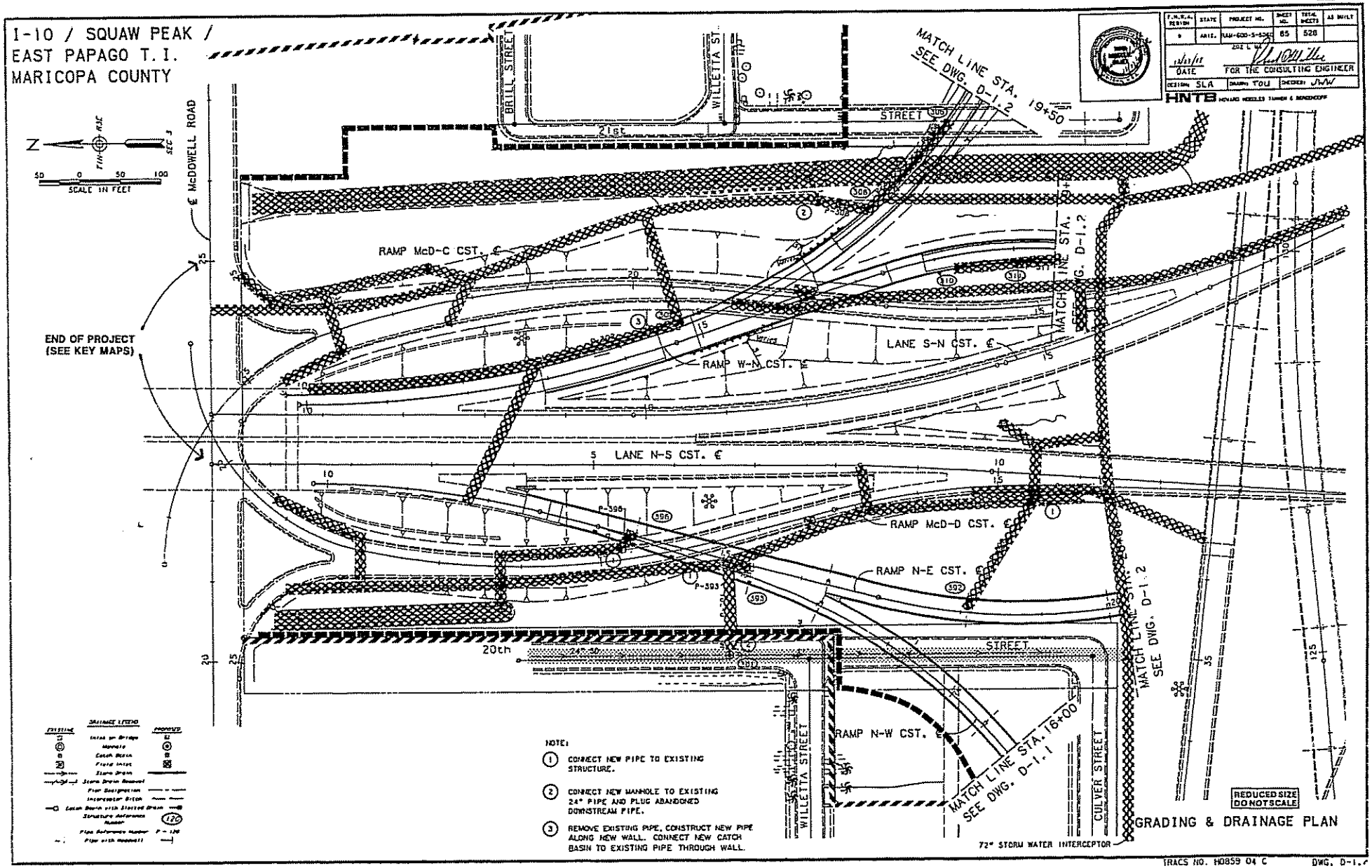


Figure 4-2, Sheet 16
Inner Loop Drainage System
18th St. - 20th St.

REVISED 8-3-93

D-9

I-10 / SQUAW PEAK /
EAST PAPAGO T.I.
MARICOPA COUNTY



NOTE:

1. CONNECT NEW PIPE TO EXISTING STRUCTURE.
2. CONNECT NEW MANHOLE TO EXISTING 24" PIPE AND PLUG ABANDONED DOWNSTREAM PIPE.
3. REMOVE EXISTING PIPE, CONSTRUCT NEW PIPE ALONG NEW WALL. CONNECT NEW CATCH BASIN TO EXISTING PIPE THROUGH WALL.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	IAM-600-3-3(26)	65	528	

DATE — FOR THE CONSULTING ENGINEER

DESIGN SLA | DRAWN TOU | CHECKED JWW

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF

TRACS NO. H0859 04 C

DWG. D-1.2

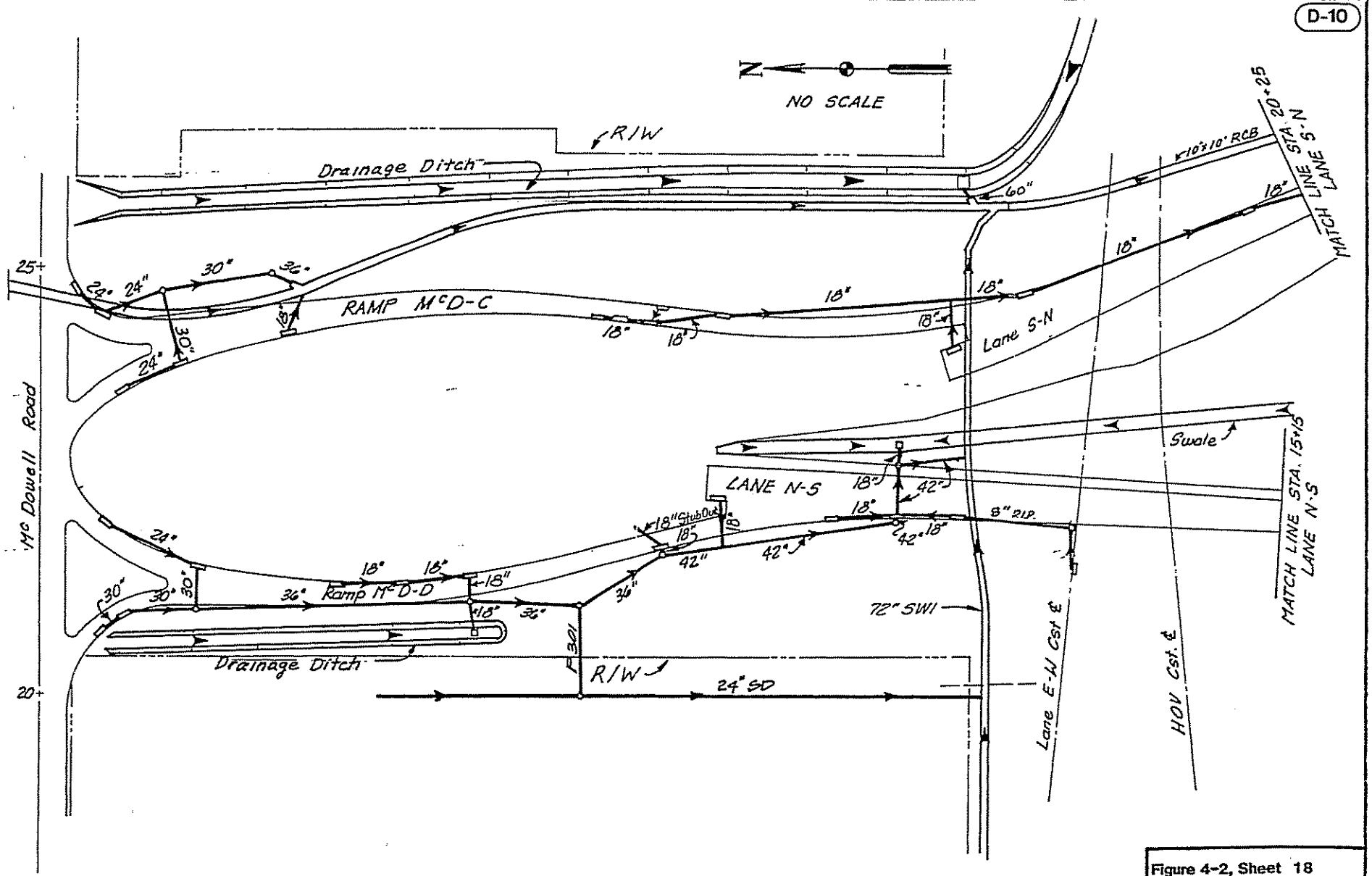
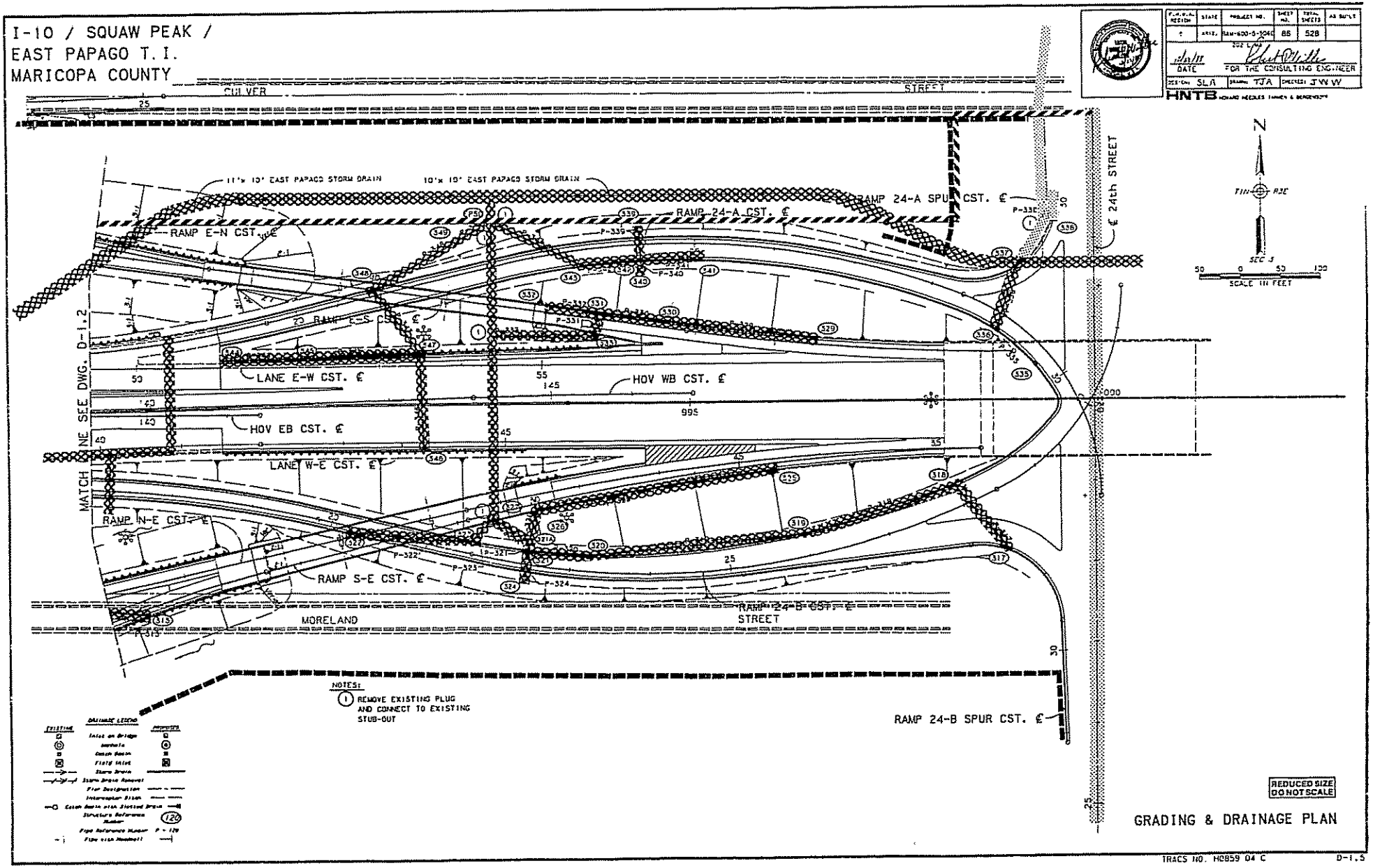


Figure 4-2, Sheet 18
Inner Loop Drainage System
McDowell Road Ramps

I-10 / SQUAW PEAK /
EAST PAPAGO T.I.
MARICOPA COUNTY



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
1	ARIZ.	BAM-600-5-5040	86	528	

DATE — FOR THE CONSULTING ENGINEER
DESIGN: SLA DRAWN: TJA CHECKED: JWW
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF

GRADING & DRAINAGE PLAN

TRACS NO. H0859 04 C D-1.5

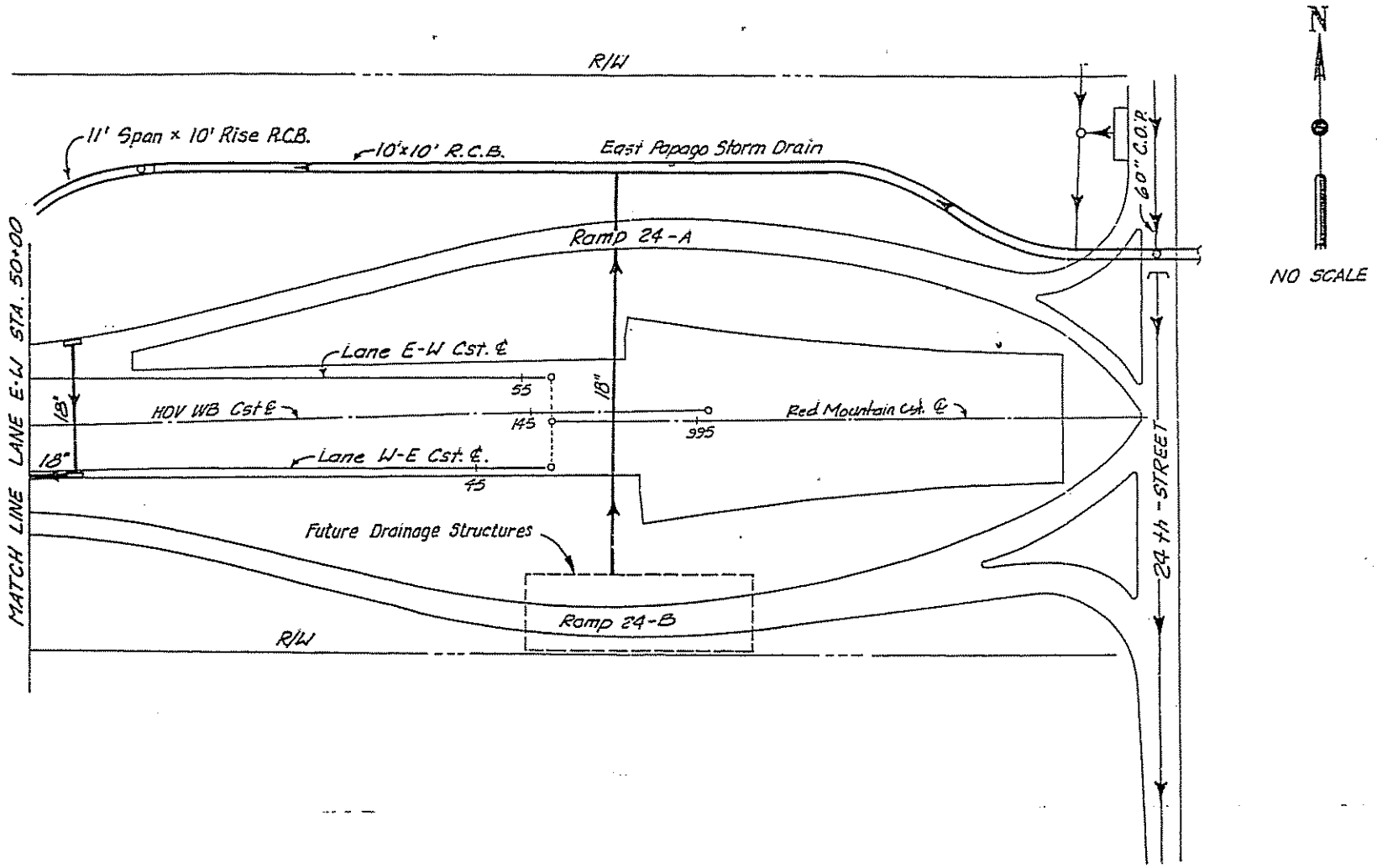


Figure 4-2, Sheet 20
Inner Loop Drainage System
East Papago Extension

DRAINAGE

MAINTENANCE EXHIBIT

I-10 Segment F

24th Street To 40th Street

This exhibit defines the areas of maintenance responsibility for the Arizona Department of Transportation and the City of Phoenix. The delineated areas apply to the responsibilities for maintenance of stormwater drainage facilities.

City of Phoenix Maintained Facilities

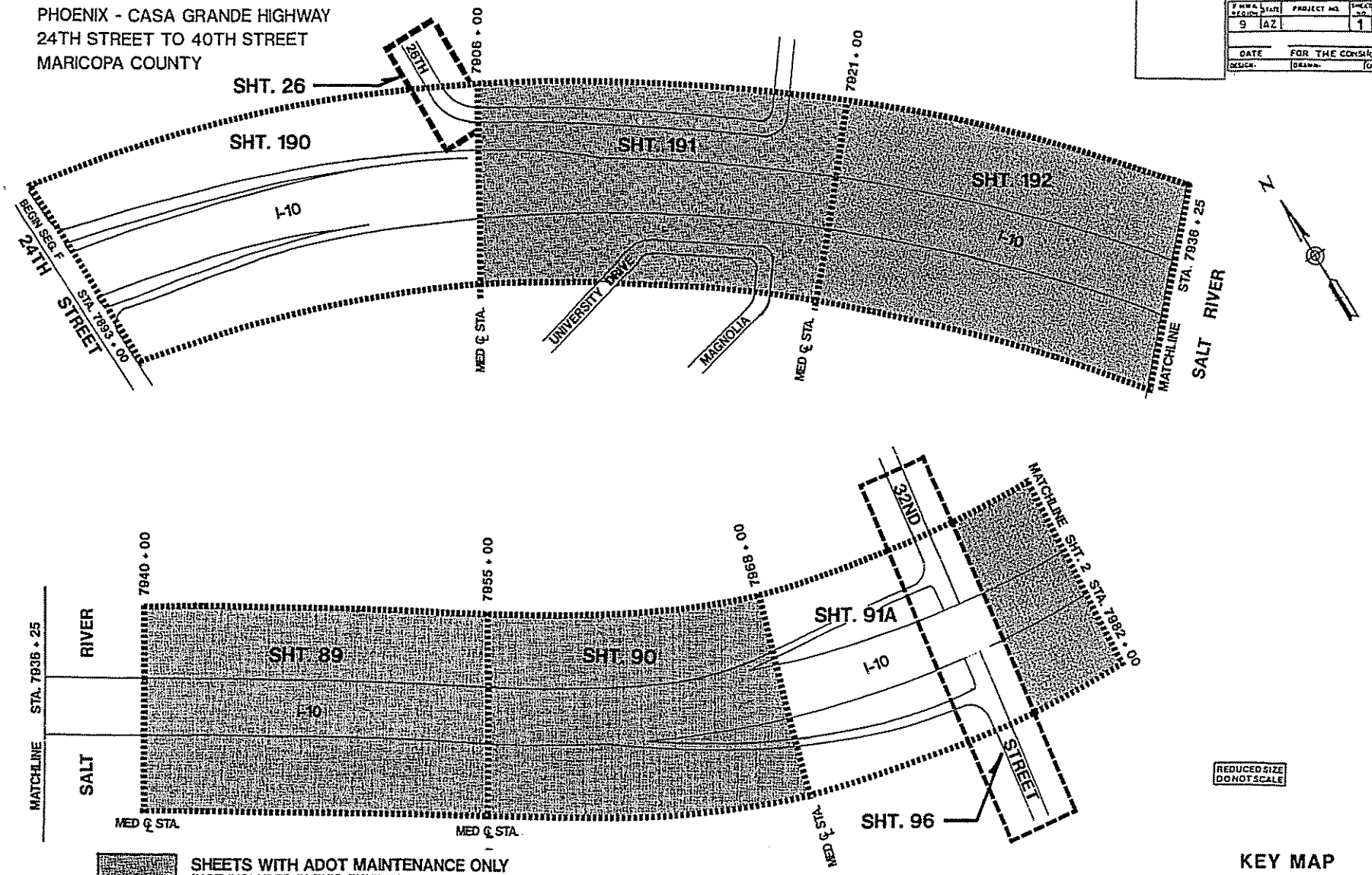
Department of Transportation Maintained Facilities

F-1

PHOENIX - CASA GRANDE HIGHWAY
24TH STREET TO 40TH STREET
MARICOPA COUNTY

FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ		1		

DATE	FOR THE CONSULTING ENGINEER
DESIGN:	DRAWN: CHECKED



SHEETS WITH ADOT MAINTENANCE ONLY
(NOT INCLUDED IN THIS EXHIBIT)

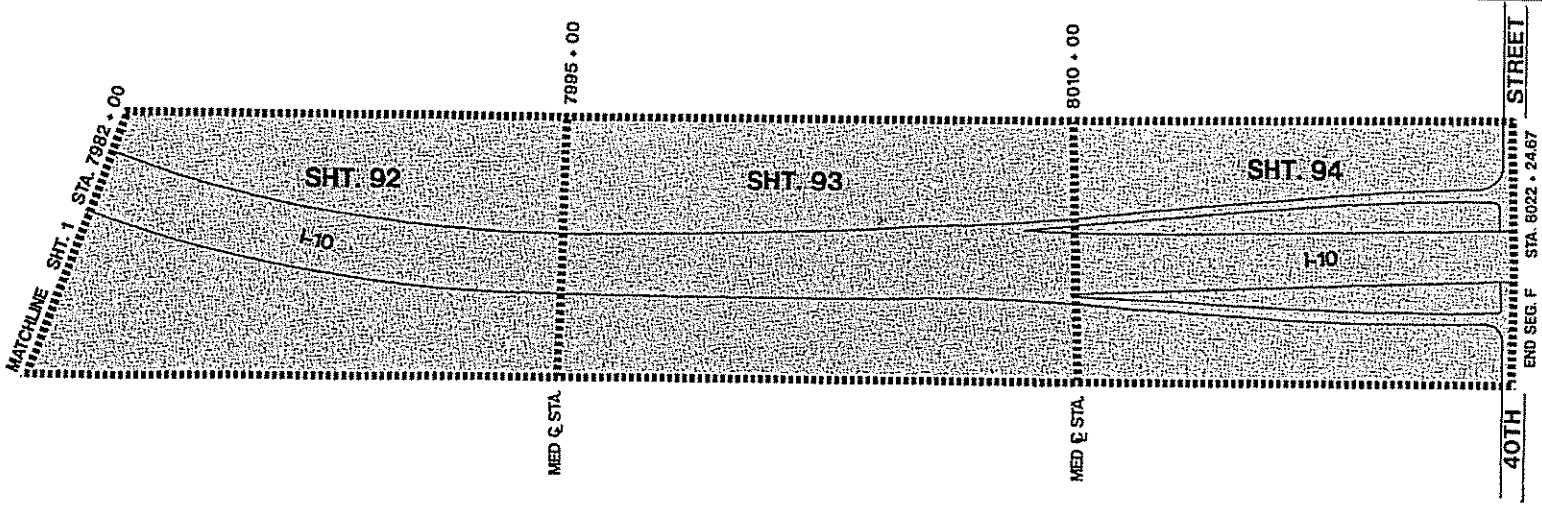
KEY MAP
STA 7893 + 00
TO STA 7982 + 00

F-2

PHOENIX - CASA GRANDE HIGHWAY
24TH STREET TO 40TH STREET
MARICOPA COUNTY

FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ		2		

DATE | FOR THE CONSULTING ENGINEER
DESIGN- | DRAWN- | CHECKED



N

LEGEND

RIGHT-OF-WAY

ACCESS CONTROL

CONCRETE/
ASPHALT LIMITS

SHEETS WITH ADOT MAINTENANCE ONLY
(NOT INCLUDED IN THIS EXHIBT)

REDUCED SIZE
DO NOT SCALE

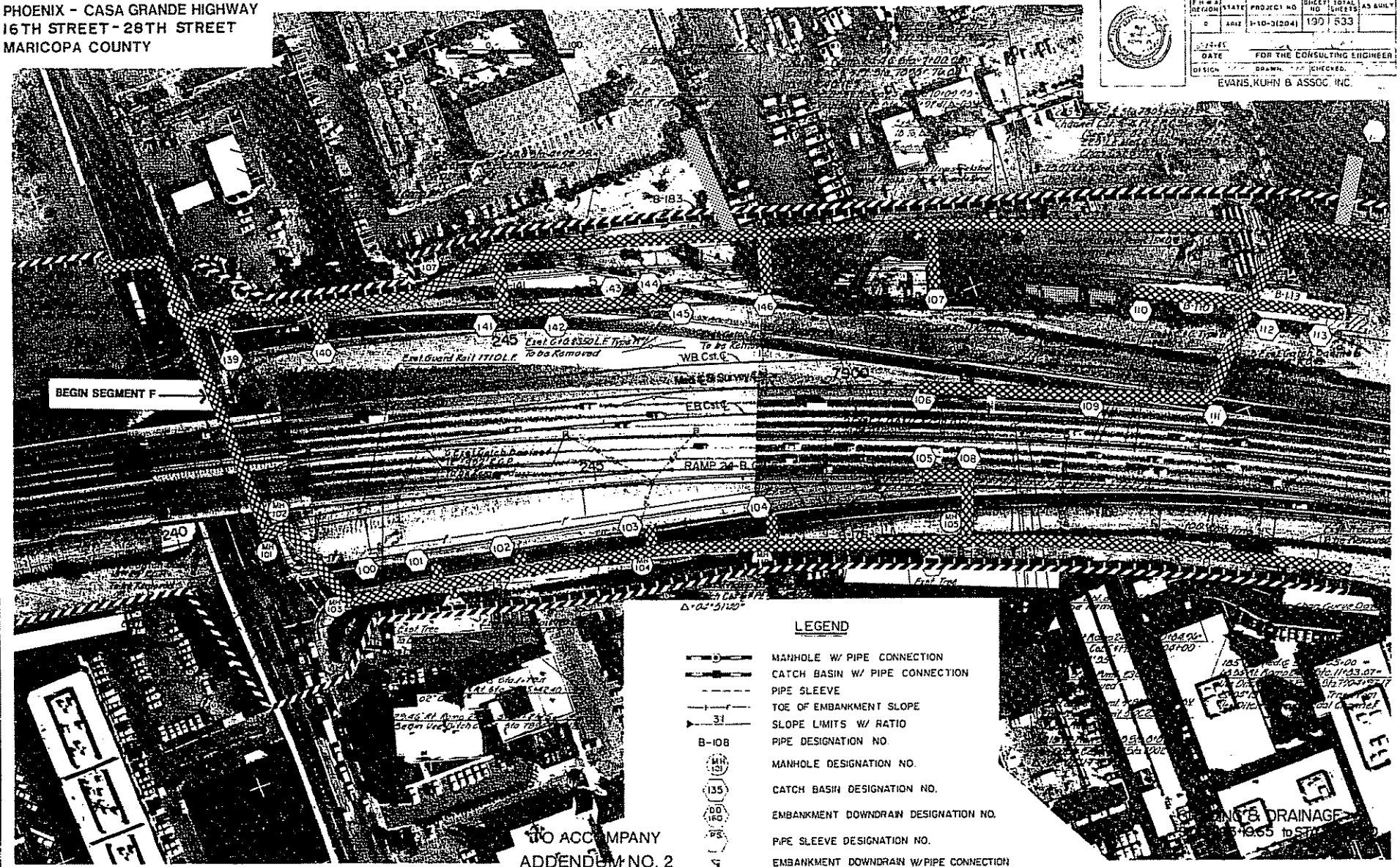
KEY MAP
STA 7982 + 00
TO STA 8032 + 74.54

F-3

PHOENIX - CASA GRANDE HIGHWAY
16TH STREET - 28TH STREET
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO	SHEET NO	TOTAL SHEETS	AS BUILT
0	ARIZ	I-10-3(204)	190	533	

DATE FOR THE CONSULTING ENGINEER
DESIGN DRAWN CHECKED
EVANS, KUHN & ASSOC. INC.



TO ACCOMPANY
ADDENDUM NO. 2

REVISIONS	BY	DATE
Revised curb location	V.K.	12-20-85

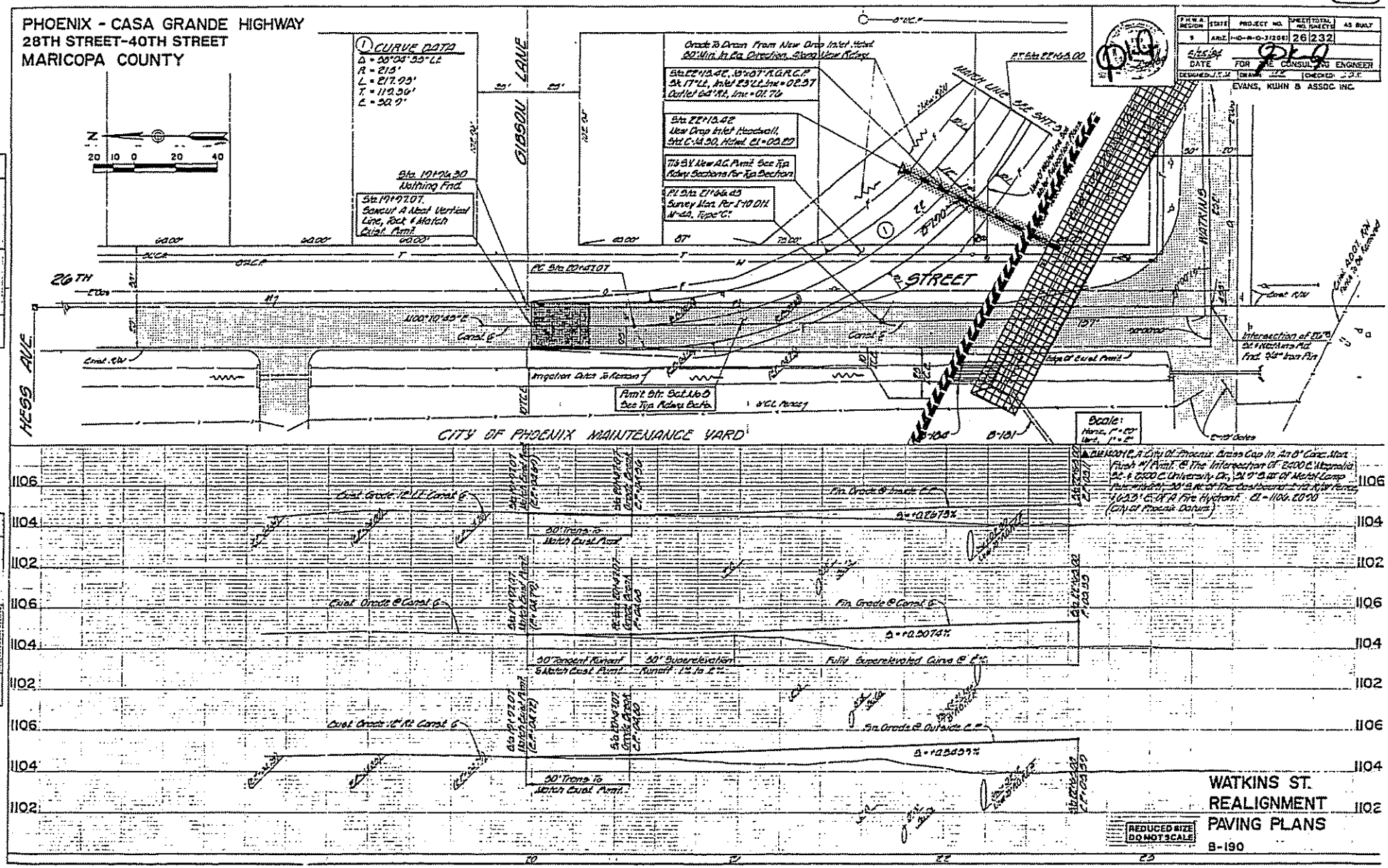
I-10-3(156)P.E. SHT NO. 25 OF

F-4

PHOENIX - CASA GRANDE HIGHWAY
28TH STREET-40TH STREET
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-10-W-O-3(206)	26	232	

EVANS, KUHN & ASSOC. INC.

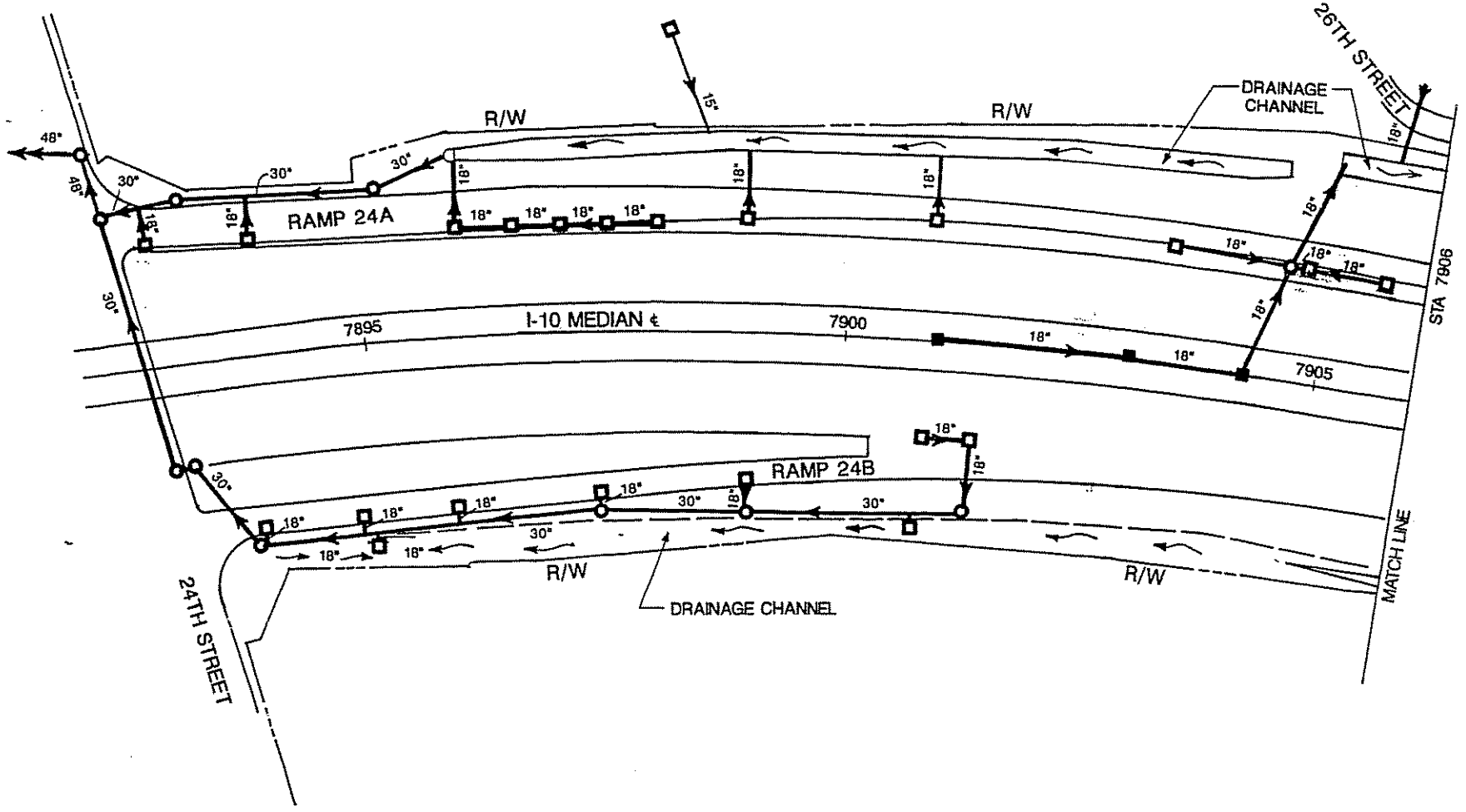


WATKINS ST.
REALIGNMENT
PAVING PLANS
B-190

REDUCED SIZE DO NOT SCALE

I-10-3(156) P.E. SHT. NO. 23 OF 43

F-5



I-10 STA 7893 TO STA 7906

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

F-6

PHOENIX - CASA GRANDE HIGHWAY
28TH STREET-40TH STREET
MARICOPA COUNTY

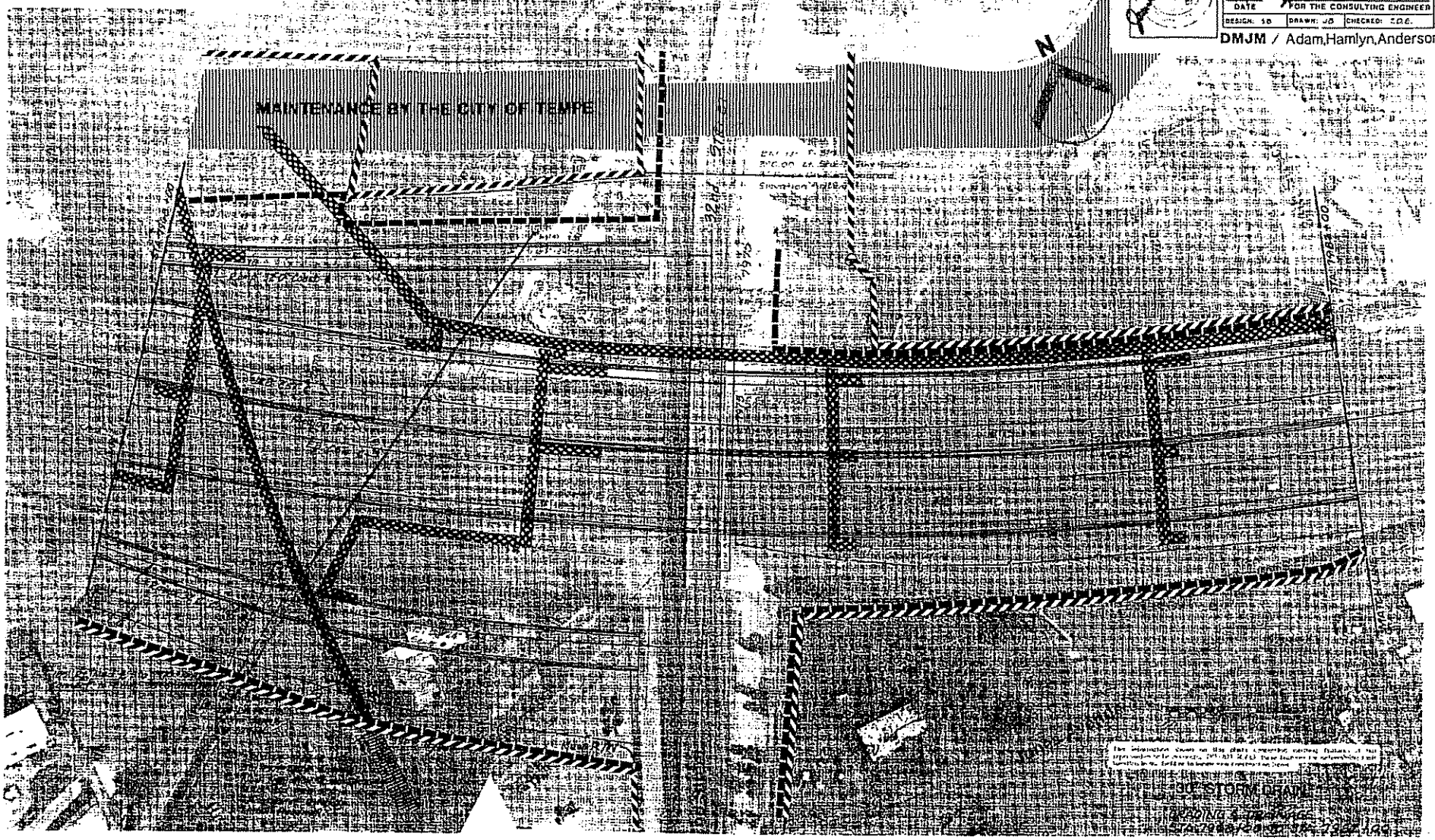
TO ACCOMPANY
CHANGE ORDER NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	I-10-3-10-32206	91A	232	

2/11/85 DATE — FOR THE CONSULTING ENGINEER

DESIGN: SB | DRAWN: JB | CHECKED: T.D.E.

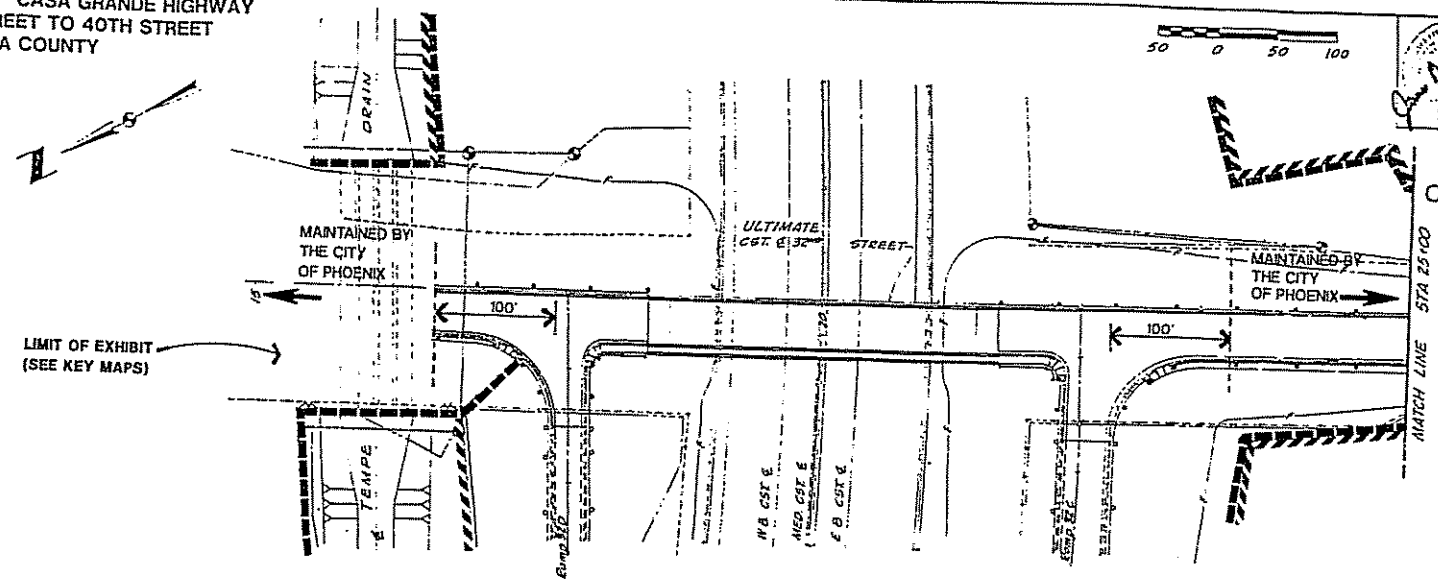
DMJM / Adam,Hamlyn,Anderson



NOS.	REVISIONS	BY	DATE
1	MISC. REVISIONS	T.D.E.	4-23-85

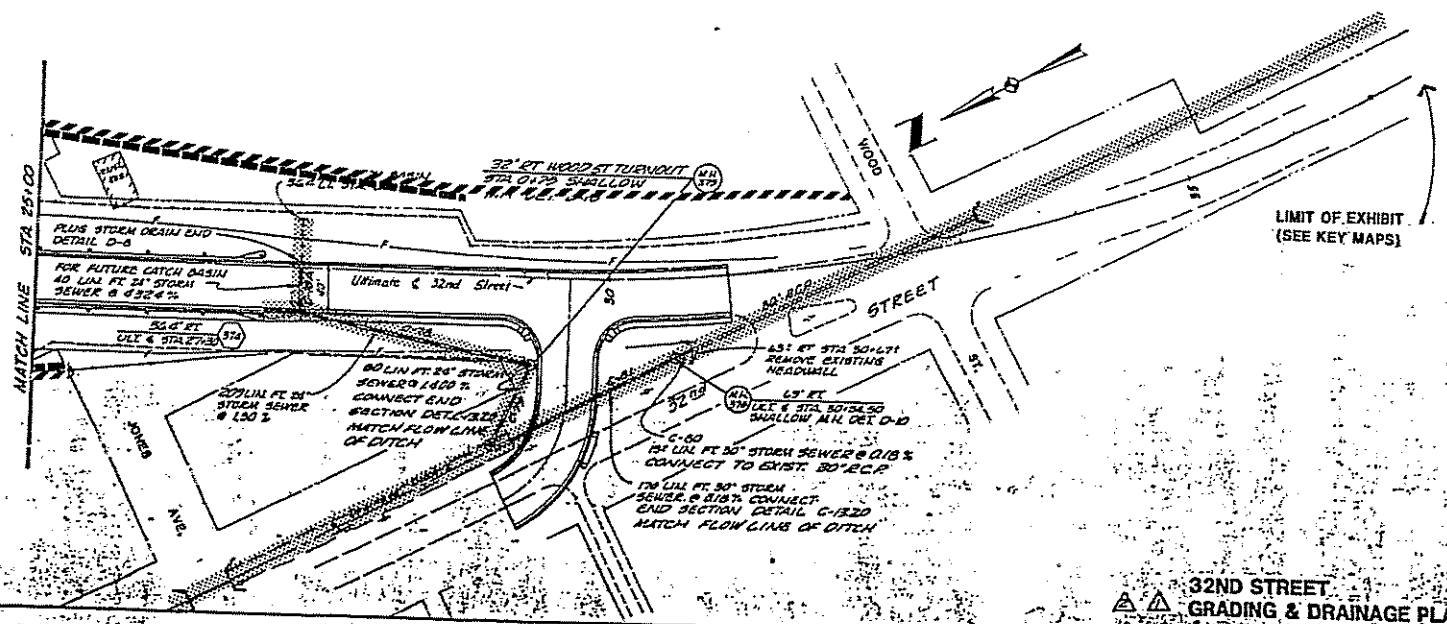
PHOENIX - CASA GRANDE HIGHWAY
28TH STREET TO 40TH STREET
MARICOPA COUNTY

F-7



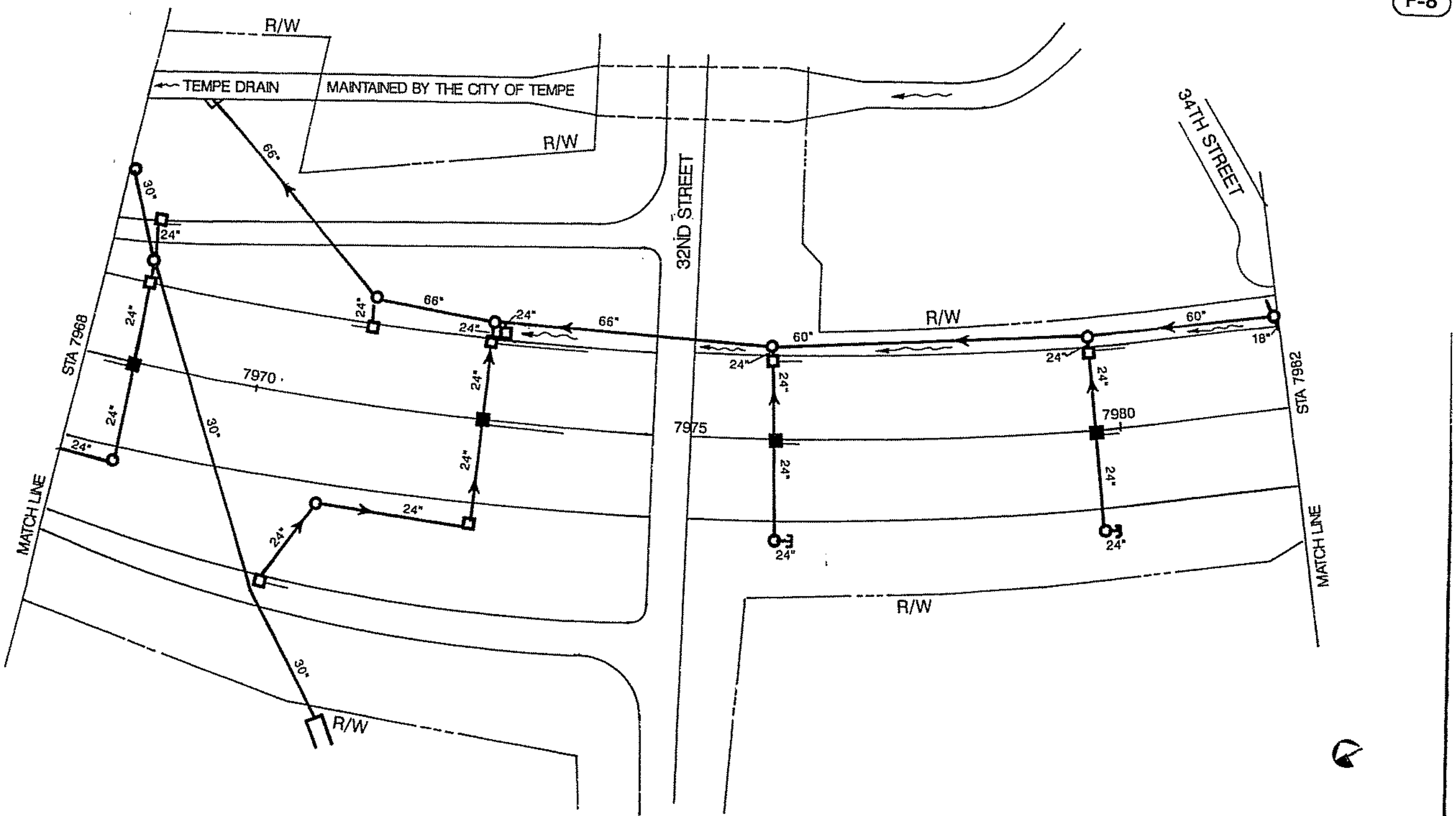
DMJM/Adam, Hamlyn, Anderson

TO ACCOMPANY
CHANGE ORDER NO._____



32ND STREET
GRADING & DRAINAGE PLAN

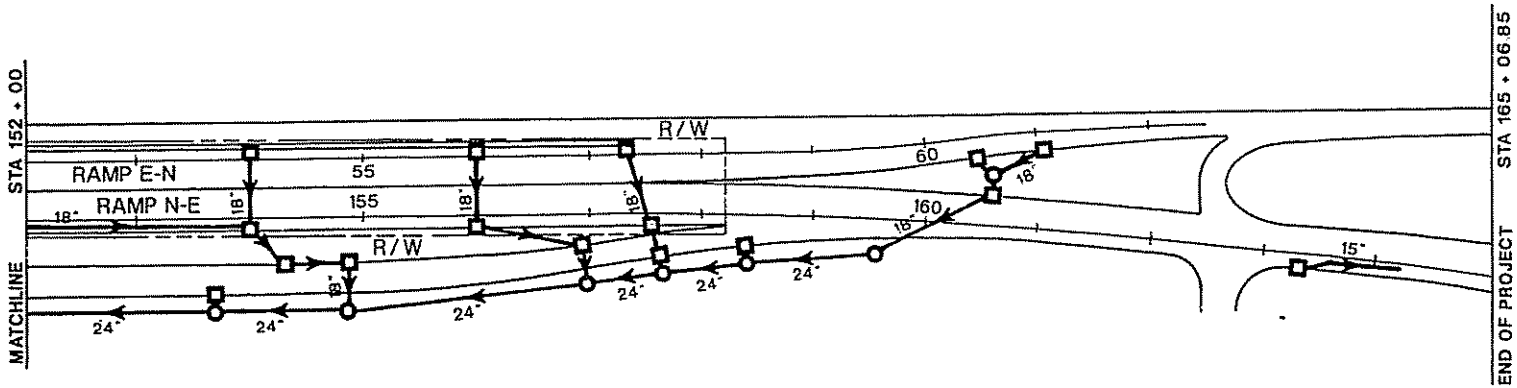
I-10-3 (162) PE



I-10 STA 7968 TO STA 7982

I-10/WEST PAPAGO FREEWAY DRAINAGE SYSTEM

HNTB

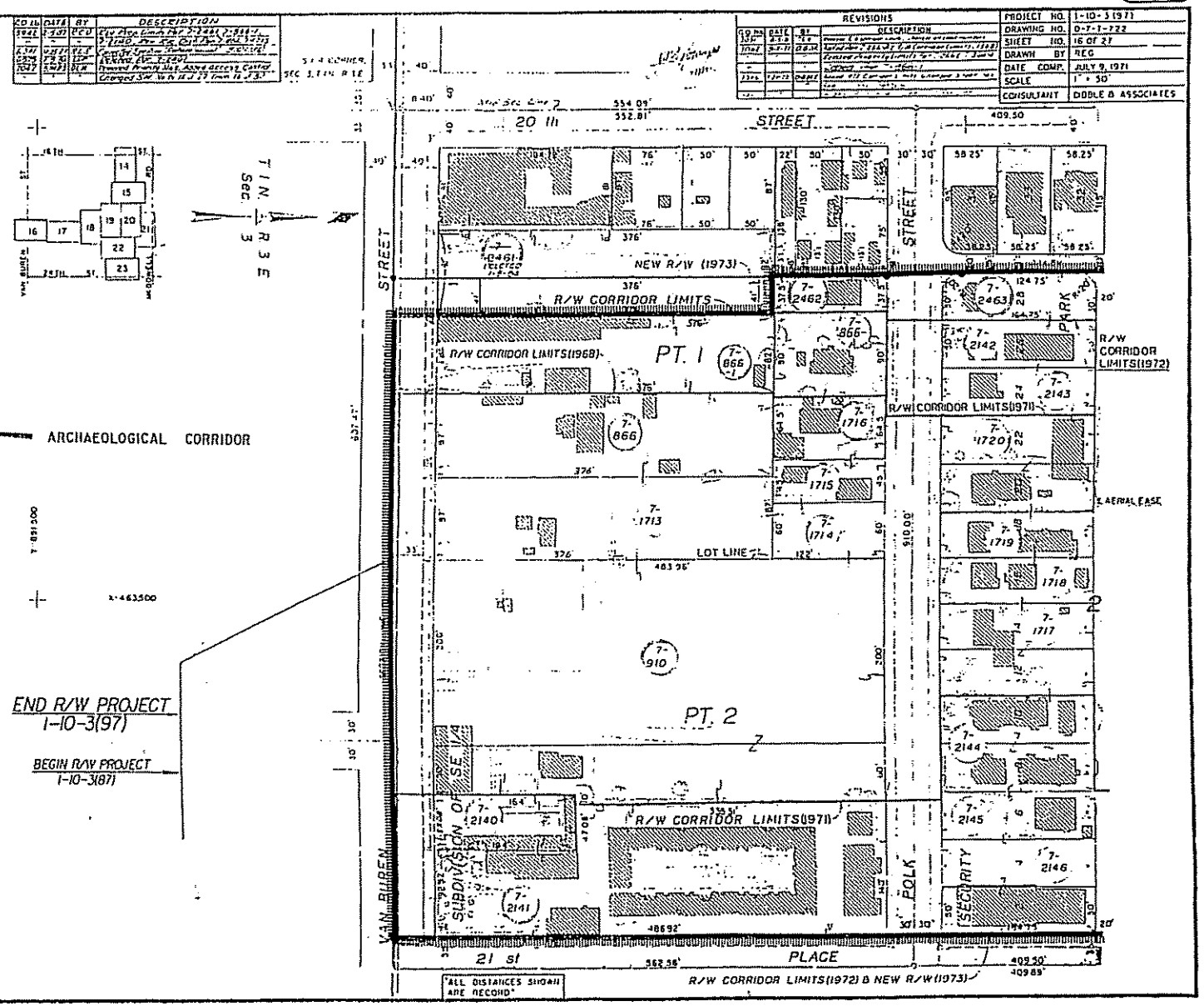


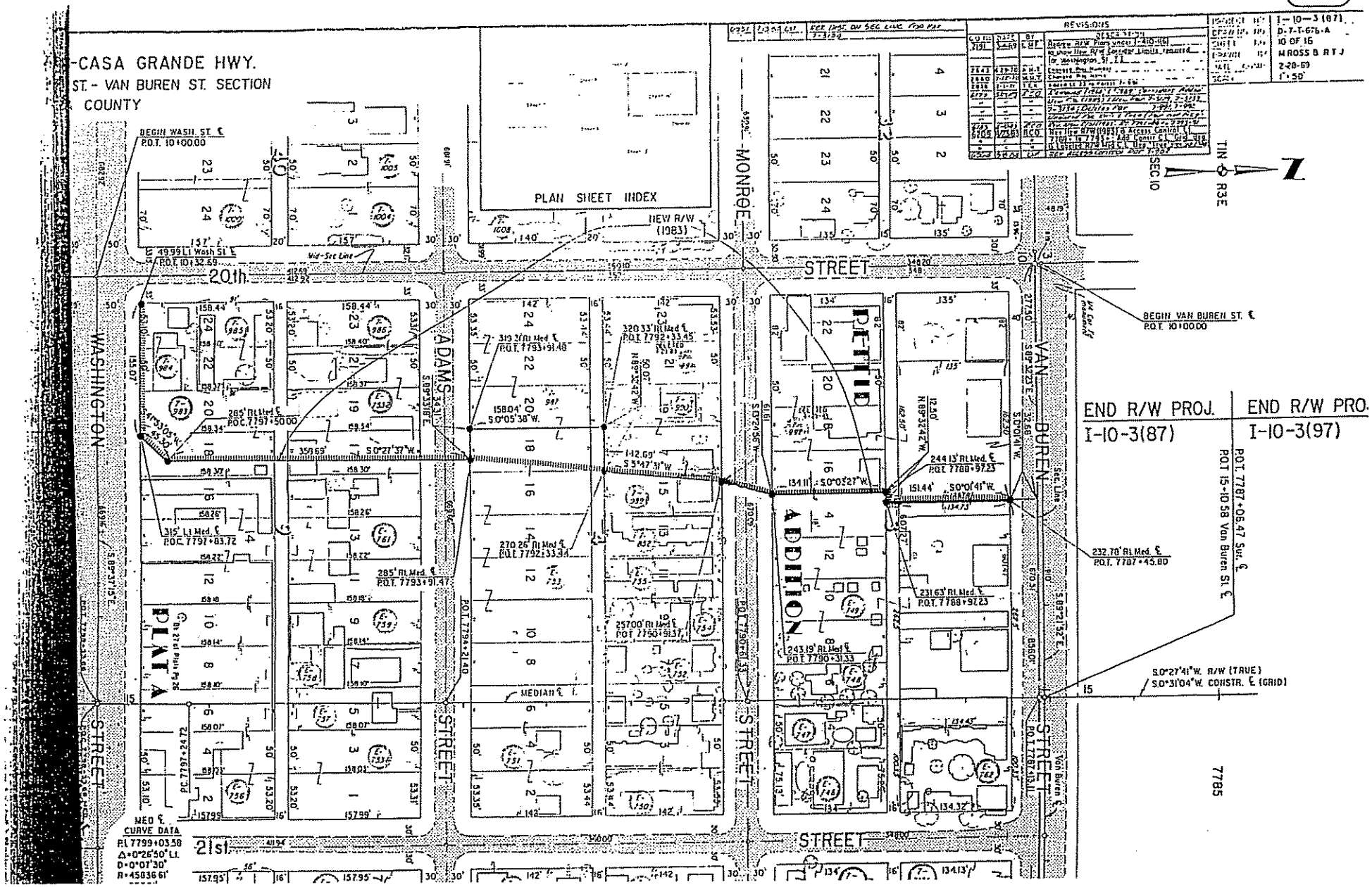
RAMP N-E STA 152 TO STA 165+06.85

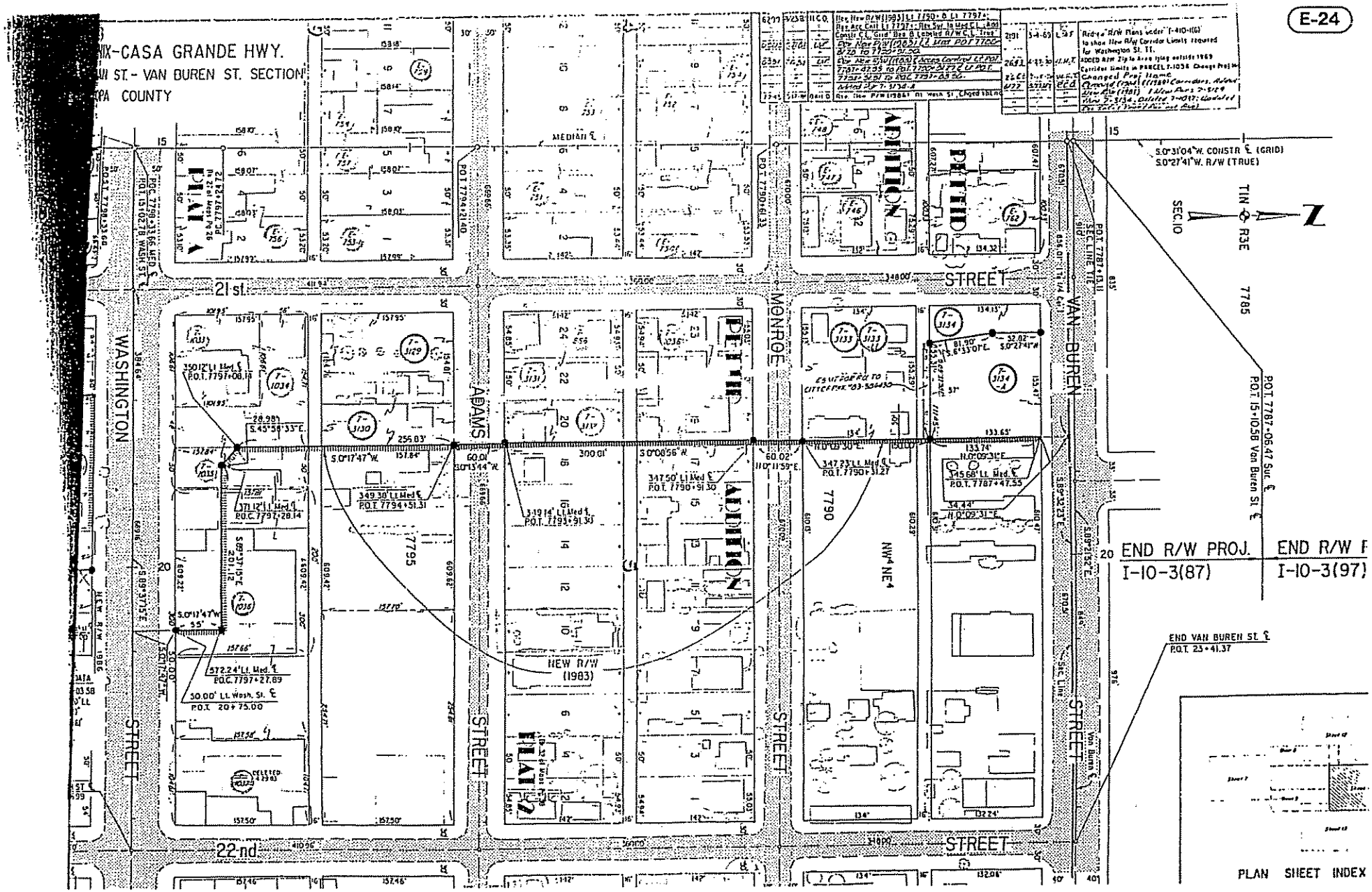
I-10/INNER LOOP PAPAGO FREEWAY DRAINAGE SYSTEM

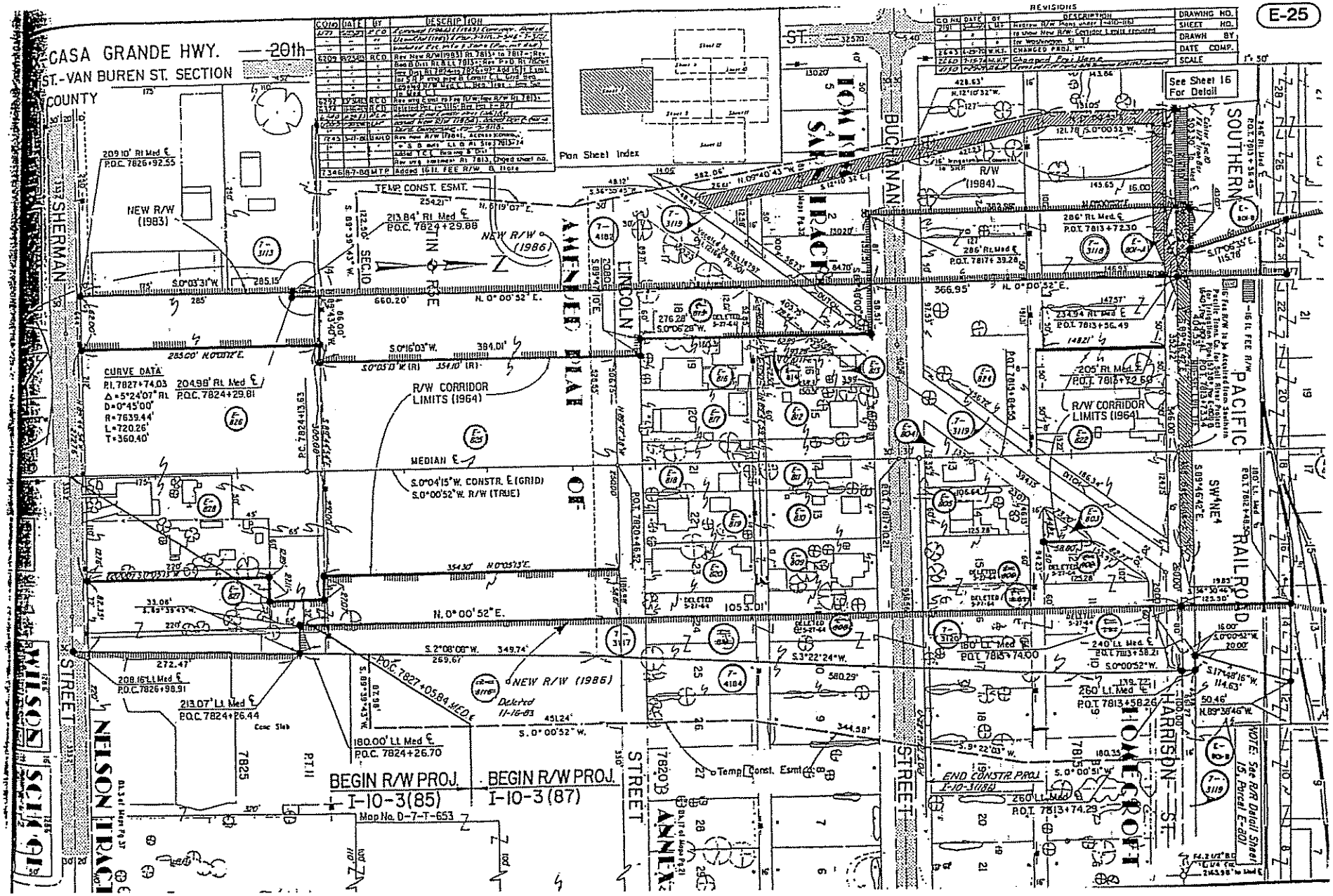
HNTB

HOENIX - CASA GRANDE HWY.
TH ST. - VAN BUREN SECTION
ARICOPA COUNTY




E-23
CASA GRANDE HWY.
ST. - VAN BUREN ST. SECTION
COUNTY
PLAN SHEET INDEX
REVISIONS
I-10-3 (87)
D-7-T-676-A
10 OF 16
MROSS B RTJ
2-28-69
1"=50'
TIN
R3E
SEC 10
BEGIN WASH. ST. ℄
P.O.T. 10+00.00
49.99 Lt Wash St ℄
P.O.T. 10+32.69
20th
STREET
WASHINGTON
ADAMS
MONROE
VAN BUREN
BEGIN VAN BUREN ST. ℄
P.O.T. 10+00.00
END R/W PROJ.
I-10-3(87)
END R/W PRO.
I-10-3(97)
P.O.T. 7787+06.47 Sur. ℄
P.O.T. 15+10.58 Van Buren St ℄
PETTID
ADDITION
PLAT A
MEDIAN ℄
S.0°27'41"W. R/W (TRUE)
S.0°31'04"W. CONSTR. ℄ (GRID)
21st
STREET
MED ℄
CURVE DATA
P.I. 7799+03.58
Δ=0°26'50" Lt.
D=0°07'30"
R=45836.61'
7785

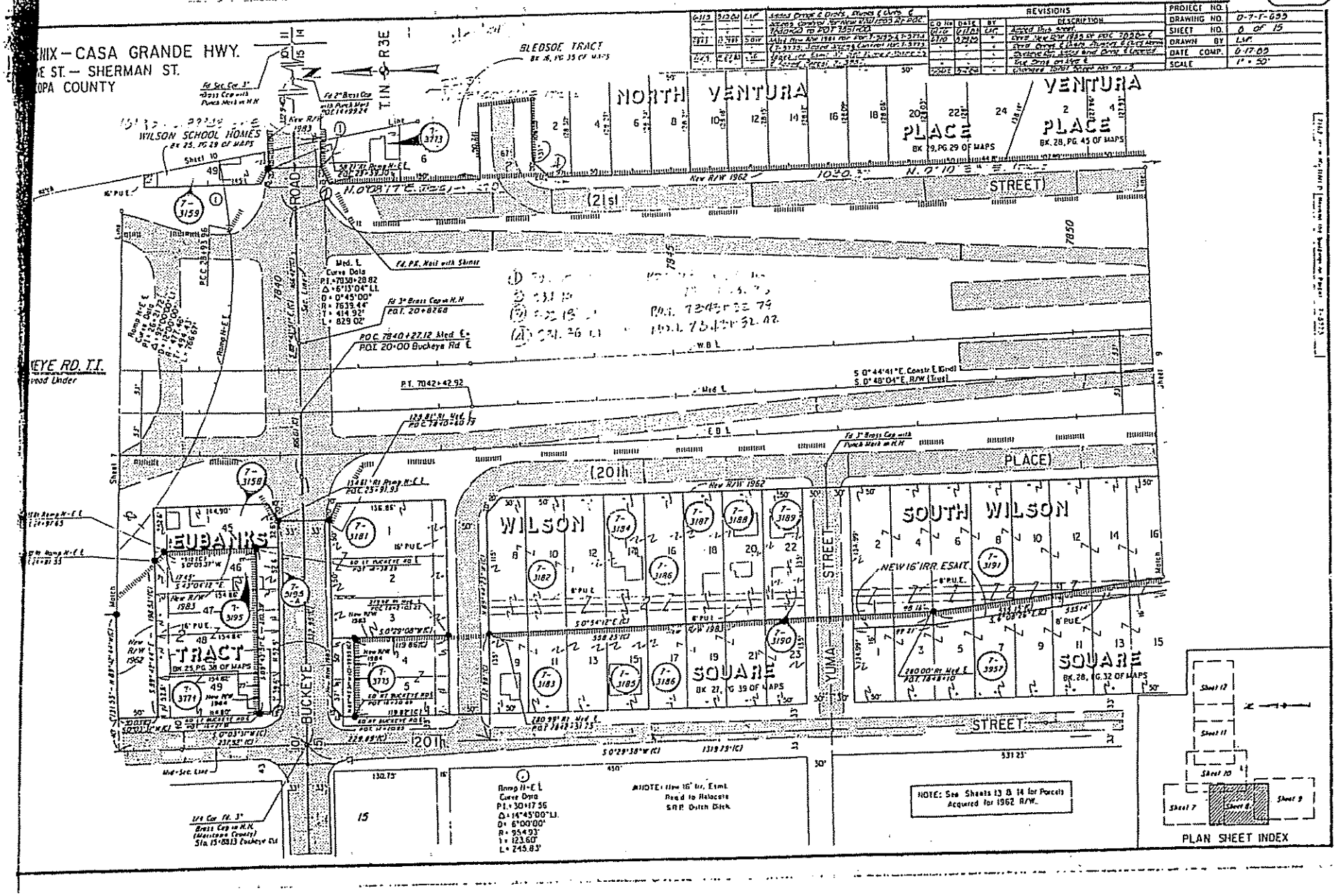

E-24
NIX-CASA GRANDE HWY.
ST. - VAN BUREN ST. SECTION
COUNTY
WASHINGTON
STREET
ADAMS
STREET
MONROE
STREET
VAN BUREN
STREET
21st
22nd
STREET
MEDIAN ℄
PLAT A
PLAT B
PLAT C
PLAT D
ADDITION
NEW R/W (1983)
7795
7790
NW4 NE4
S.0°31'04"W. CONSTR ℄ (GRID)
S.0°27'41"W. R/W (TRUE)
TIN R3E
SEC.10
7785
P.O.T. 7787+06.47 Suc ℄
P.O.T. 15+10.58 Van Buren St. ℄
END R/W PROJ.
I-10-3(87)
END R/W P
I-10-3(97)
END VAN BUREN ST. ℄
P.O.T. 23+41.37
PLAN SHEET INDEX


E-25
CASA GRANDE HWY. 20th
ST.-VAN BUREN ST. SECTION
COUNTY
REVISIONS
DRAWING NO.
SHEET NO.
DRAWN BY
DATE COMP.
SCALE 1" = 50'
See Sheet 16 For Detail
Plan Sheet Index
TEMP. CONST. ESMT.
NEW R/W (1983)
NEW R/W (1986)
R/W (1984)
SHERMAN
BUCHANAN
LINCOLN
SOUTHERN PACIFIC RAILROAD
HARRISON ST.
HOMECROFT
AMENDED PLAT OF
CURVE DATA
P.I. 7827+74.03
Δ=5°24'07" Rt
D=0°45'00"
R=7639.44'
L=720.26'
T=360.40'
R/W CORRIDOR LIMITS (1964)
MEDIAN ℄
S.0°04'15"W. CONSTR. ℄ (GRID)
S.0°00'52"W. R/W (TRUE)
N. 0° 00' 52" E.
BEGIN R/W PROJ. I-10-3(85)
BEGIN R/W PROJ. I-10-3(87)
Map No. D-7-T-653
END CONSTR. PROJ. I-10-3(186)
Temp. Const. Esmt.
NELSON TRACT
WILSON SCHOOL
STREET
ANNEX
NOTE: See R/R Detail Sheet 15, Parcel E-801

PHOENIX – CASA GRANDE HWY.
BUCKEYE ST. – SHERMAN ST.
MARICOPA COUNTY

REVISIONS			
C.O. No.	DATE	BY	DESCRIPTION

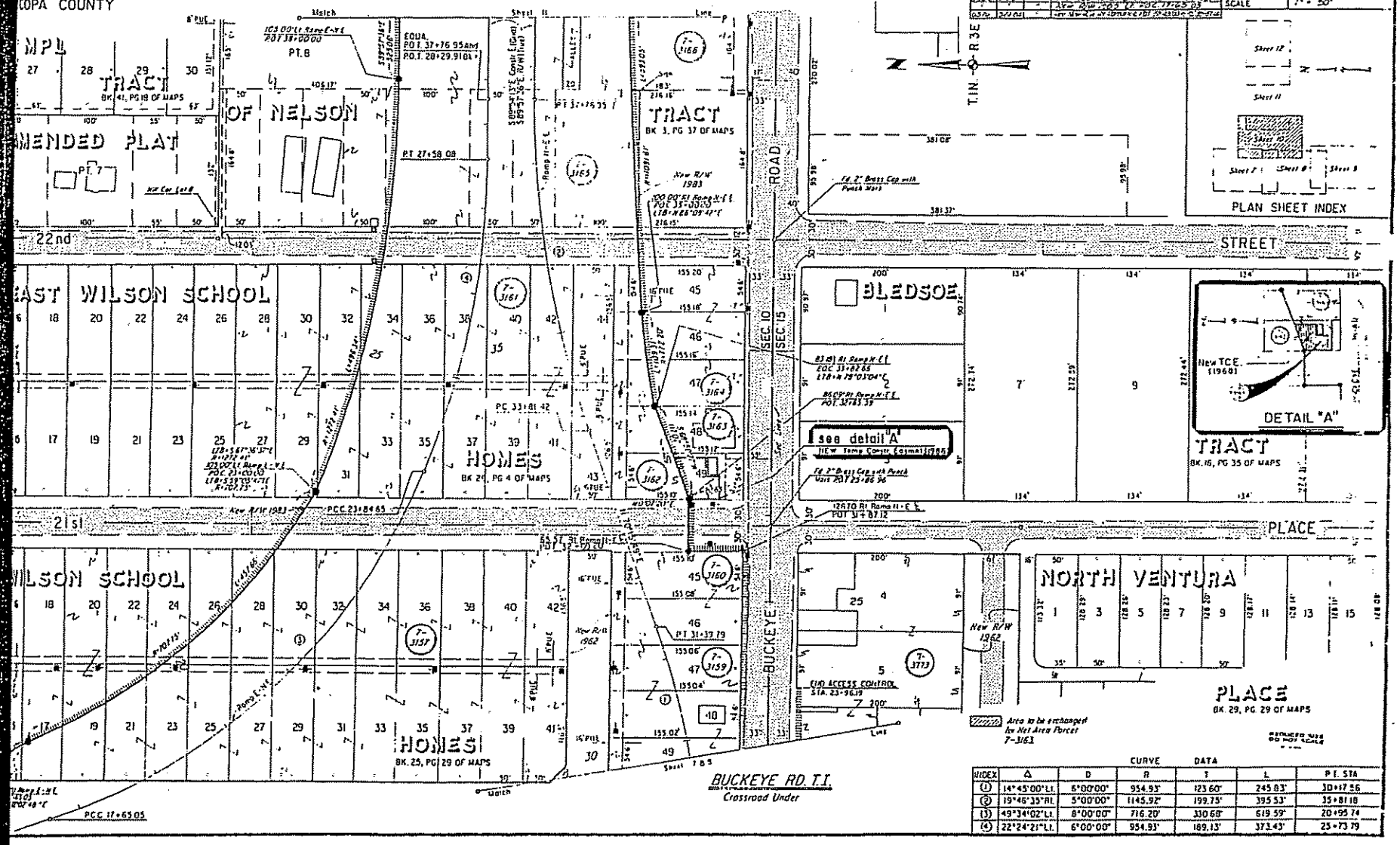
PROJECT NO.	
DRAWING NO.	0-7-1-693
SHEET NO.	8 OF 15
DRAWN BY	LAP
DATE COMP.	6-17-00
SCALE	1" = 50'



ENIX – CASA GRANDE HWY.
WE ST. – SHERMAN ST.
COPA COUNTY

REVISIONS			
CO NO	DATE	BY	DESCRIPTION
			Added Zone & Note For Par 7-3167.
			Added Line & of Deleted Sheet to Par 7-3173.
			Added TCE to Par 7-3162 & Rev
			Access Control on 21st Place & Buckeye Rd
			Added Plan Sheet
			New Curves & Stns. Added Ex Ch
			Set New R/W, P.O.T. 30+92.35 Rt. & Lt.
			Set Ramp & Lanes, Put Ramp Stations &
			Changed Total Sheet No to 15 Sht.
			Add New R/W P.O.T. 27+05.03
			Add New R/W Tangent Pt 27+05.03

PROJECT NO.	I-10-3(105)
DRAWING NO.	0-7-1-693
SHEET NO.	10 OF 15
DRAWN BY	LAF
DATE COMP	9 17 83
SCALE	1" = 50'



CURVE DATA

INDEX	Δ	D	R	T	L	P.T. STA
①	14°45'00"Lt.	6°00'00"	954.93'	123.60'	245.83'	30+17.56
②	19°46'33"Rt.	5°00'00"	1145.92'	199.75'	395.53'	35+81.18
③	49°34'02"Lt.	8°00'00"	716.20'	330.68'	619.59'	20+95.74
④	22°24'21"Lt.	6°00'00"	954.93'	189.13'	373.43'	25+73.79

DRAINAGE

MAINTENANCE EXHIBIT

I-10 Segment E

Roosevelt Street To 24th Street

This exhibit defines the areas of maintenance responsibility for the Arizona Department of Transportation and the City of Phoenix. The delineated areas apply to the responsibilities for maintenance of stormwater drainage facilities.

REVISED 8-3-93

City of Phoenix Maintained Facilities

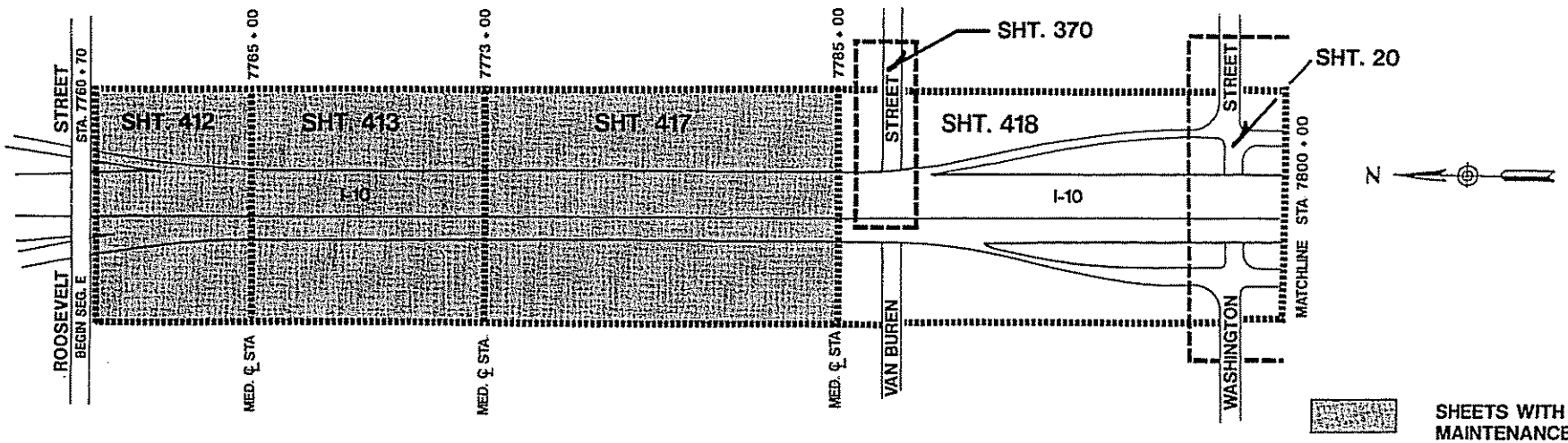
Department of Transportation Maintained Facilities

E-1

PHOENIX - CASA GRANDE HIGHWAY
ROOSEVELT STREET TO 24TH STREET
MARICOPA COUNTY

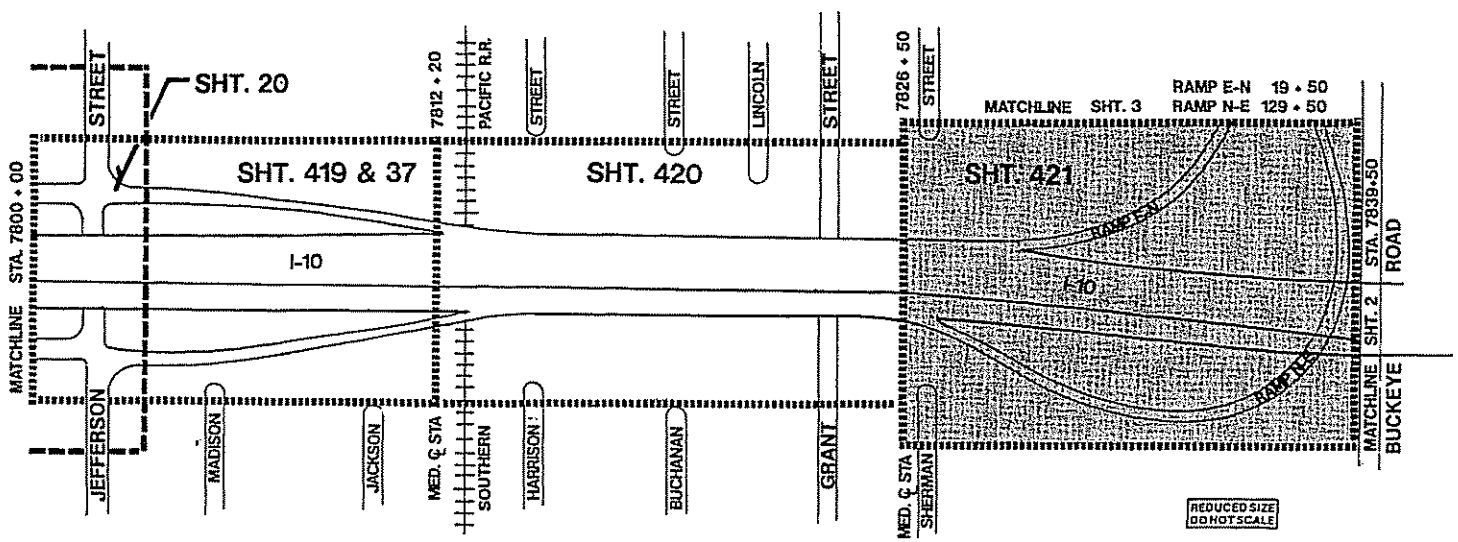
FHWA REGION	STATE	PROJECT NO.	SHEET NO. OF TOTAL SHEETS	AS BUILT
9	AZ		1	

DATE FOR THE CONSULTING ENGINEER
DESIGN DRAWN CHECKED



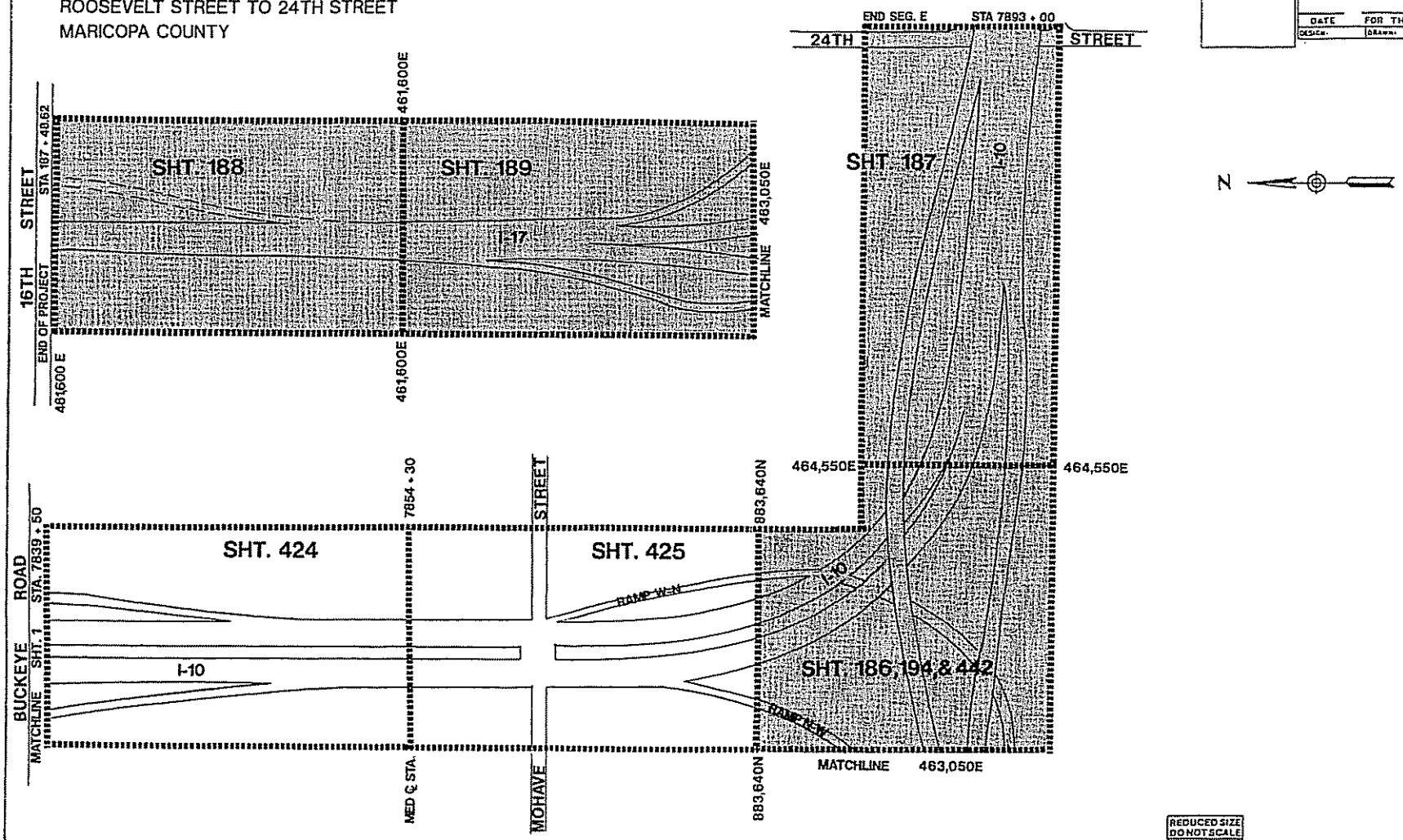
SHEETS WITH ADOT MAINTENANCE ONLY

(NOT INCLUDED IN THIS EXHIBIT)



KEY MAP
STA 7760 + 70
TO STA 7839 + 50

PHOENIX - CASA GRANDE HIGHWAY
ROOSEVELT STREET TO 24TH STREET
MARICOPA COUNTY



FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ		2		

DATE FOR THE CONSULTING ENGINEER
DESIGN: DRAWN: CHECKED:

REDUCED SIZE DO NOT SCALE

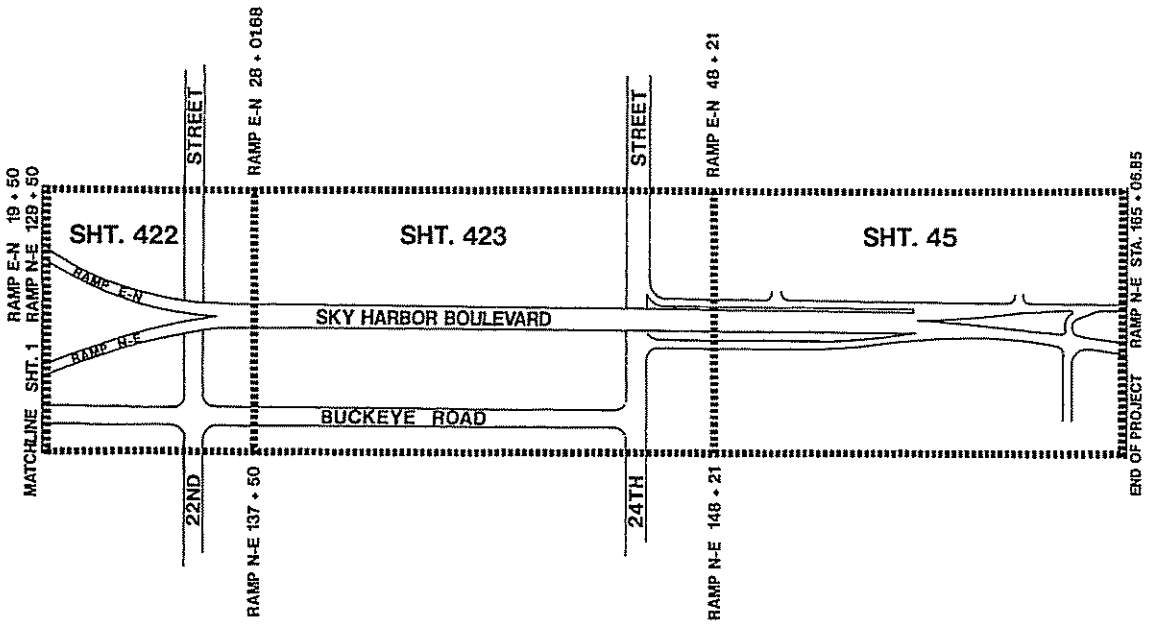
SHEETS WTIH ADOT MAINTENANCE ONLY
(NOT INCLUDED IN THIS EXHIBIT)

KEY MAP
STA 7839 + 50
TO STA 7893 + 00

PHOENIX - CASA GRANDE HIGHWAY
ROOSEVELT STREET TO 24TH STREET
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO	SHEET NO.	TOTAL NO. SHEETS	AS BUILT
9	AZ		3		

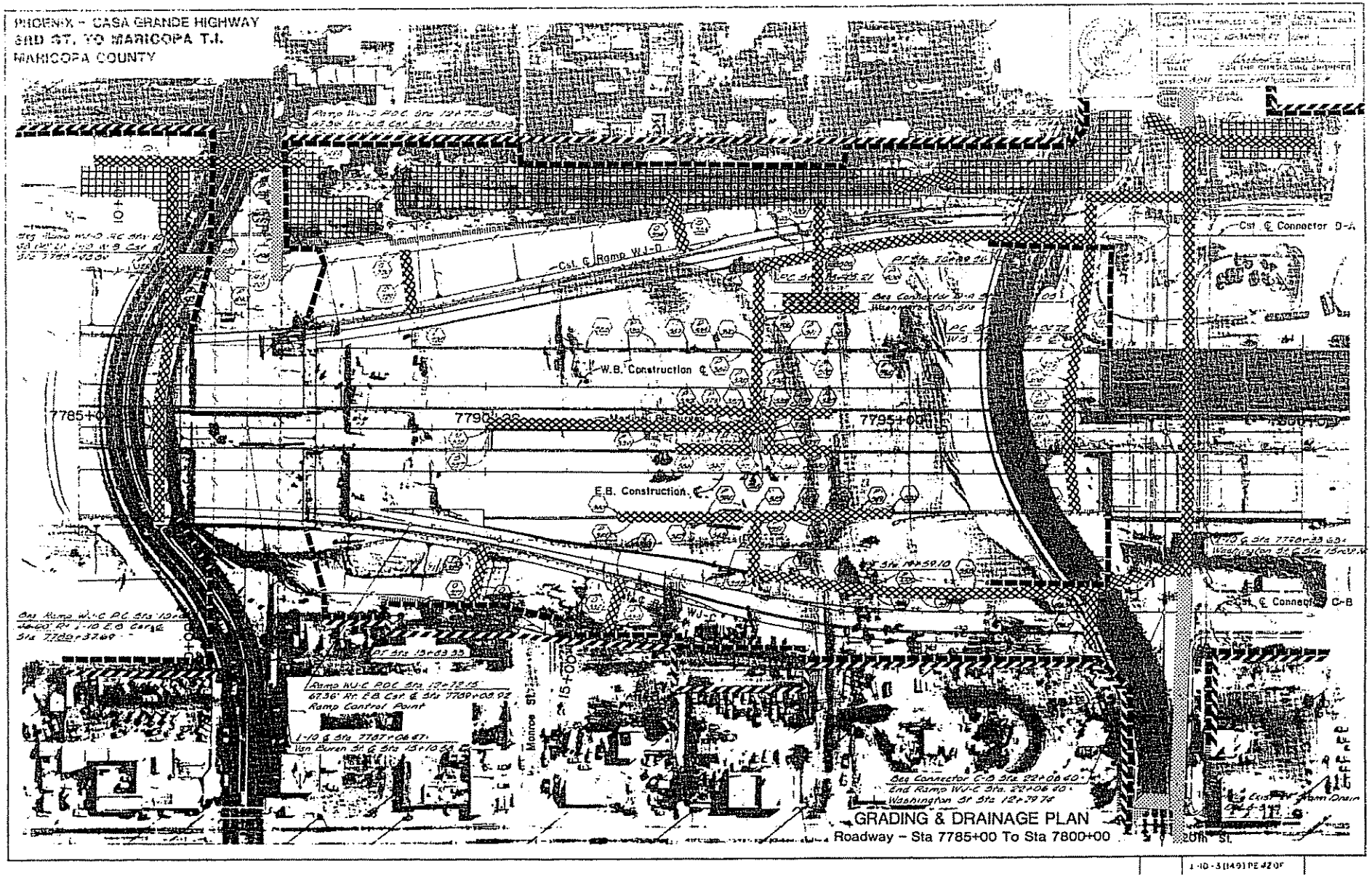
DATE FOR THE CONSULTING ENGINEER
DESIGNED DRAWN CHECKED



KEY MAP

RAMP N-E STA 129 + 50 TO 165 + 06.85
RAMP E-N STA 19 + 50 TO STA 62 + 50.62

PHOENIX - CASA GRANDE HIGHWAY
3RD ST. TO MARICOPA T.I.
MARICOPA COUNTY

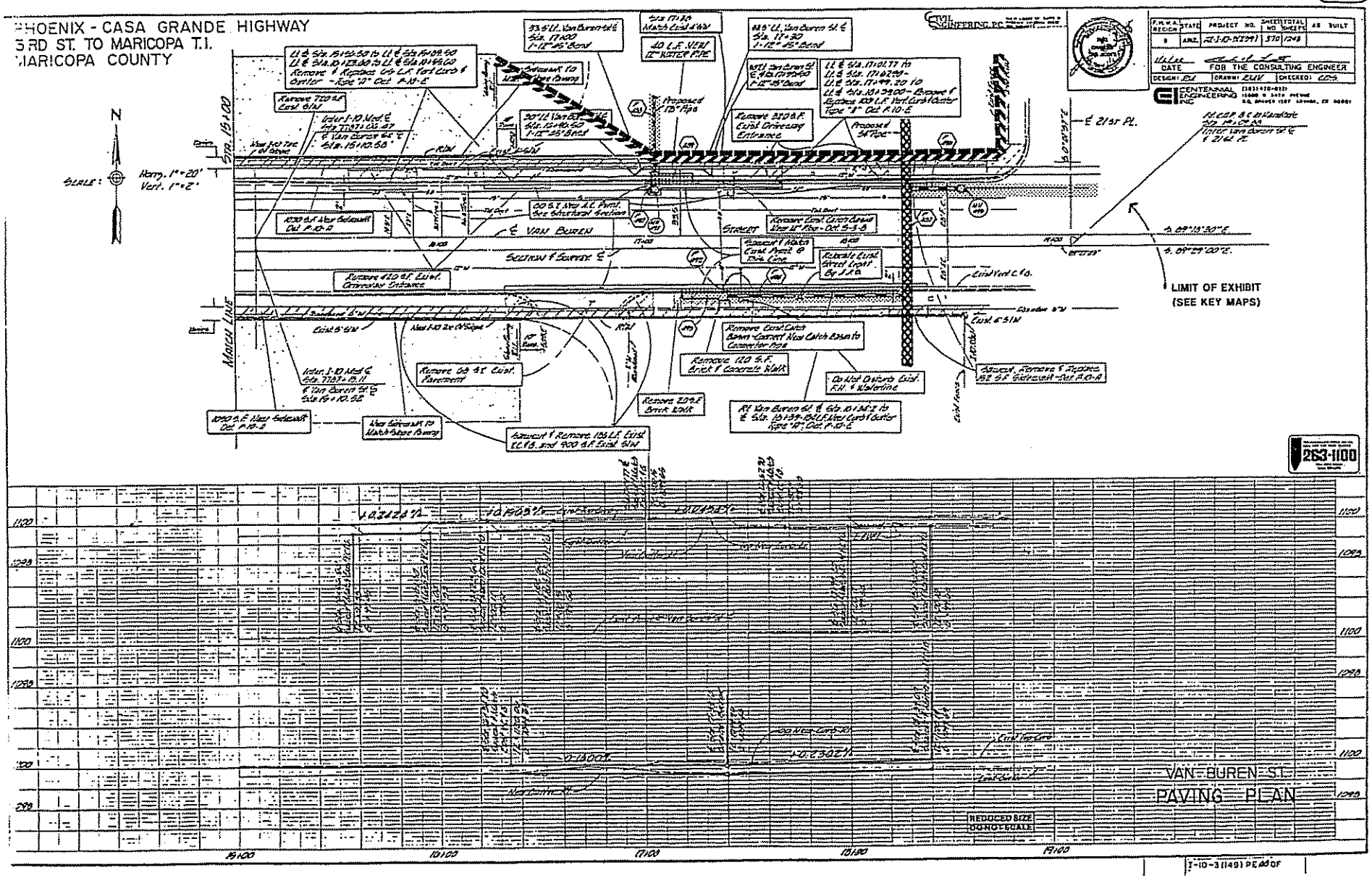


GRADING & DRAINAGE PLAN
Roadway – Sta 7785+00 To Sta 7800+00

1-10-3(149)PE 42 OF

E-5

PHOENIX - CASA GRANDE HIGHWAY
3RD ST. TO MARICOPA T.I.
MARICOPA COUNTY



I-10-3 (149) PE 00 OF

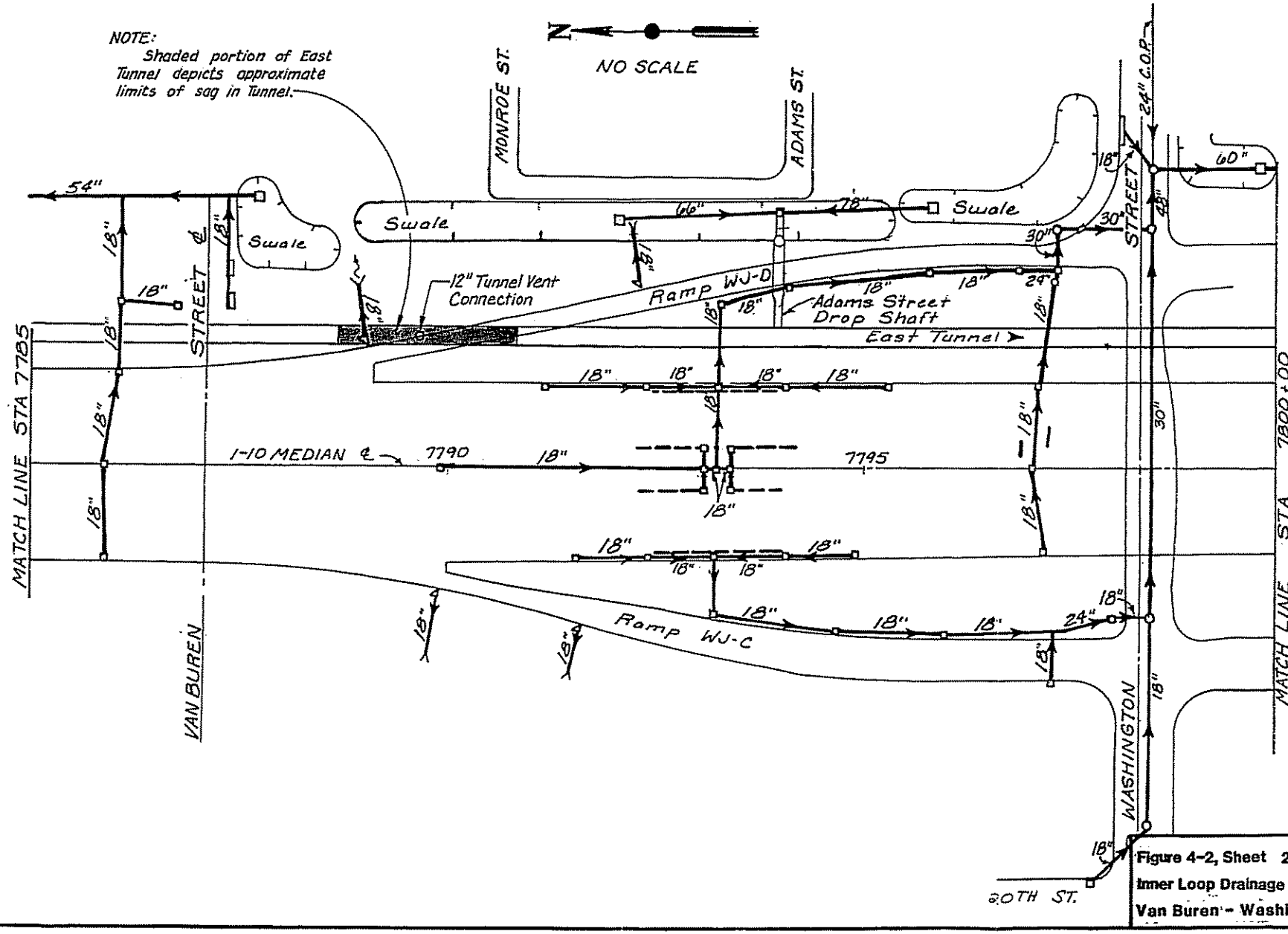
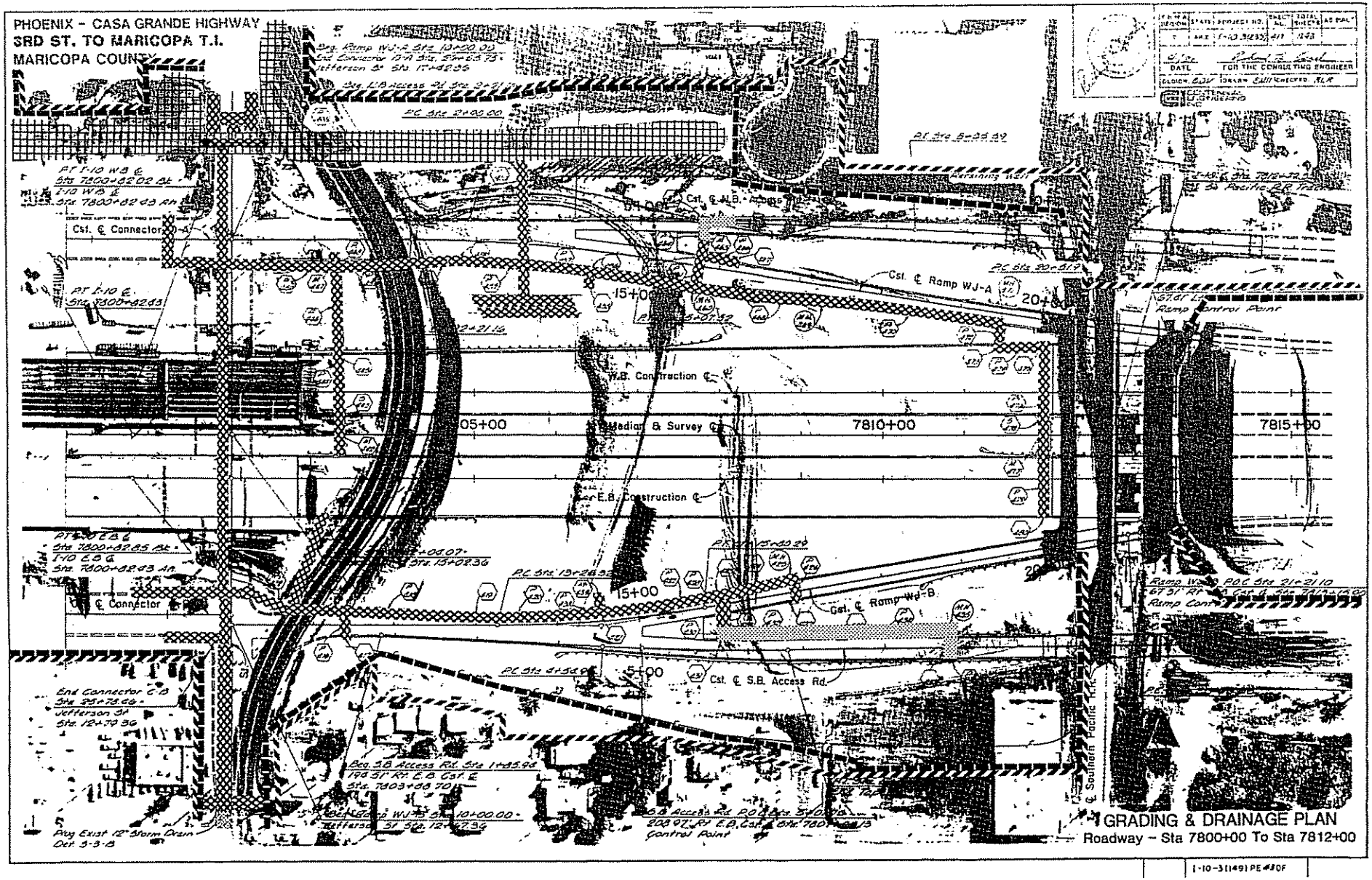
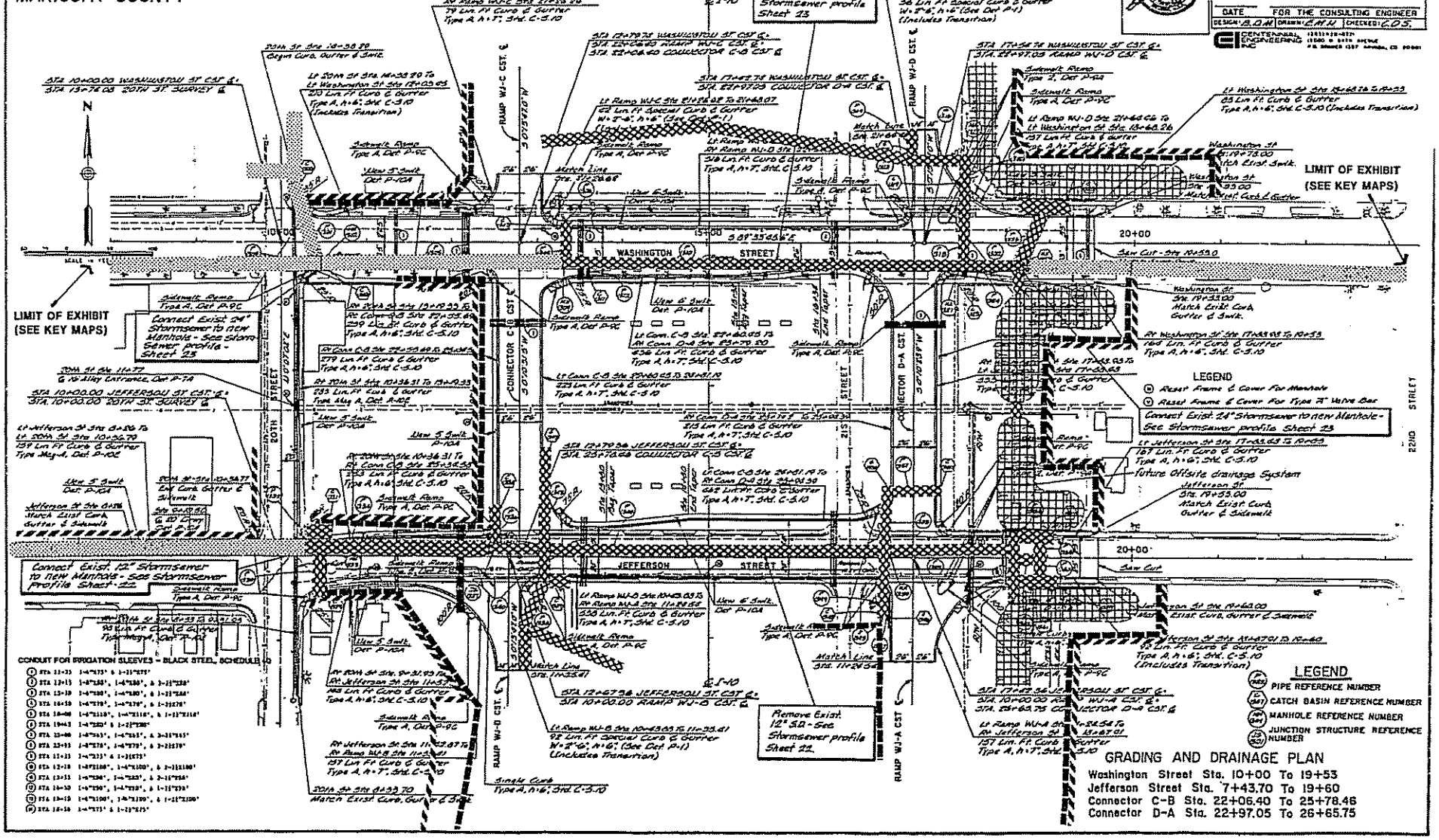


Figure 4-2, Sheet 23
Inner Loop Drainage System
Van Buren - Washington


PHOENIX - CASA GRANDE HIGHWAY
3RD ST. TO MARICOPA T.I.
MARICOPA COUNTY
Cst. ℄ Connector
Cst. ℄ Ramp WJ-A
Cst. ℄ Ramp WJ-B
W.B. Construction ℄
Median & Survey ℄
E.B. Construction ℄
Cst. ℄ S.B. Access Rd.
15+00
20+00
05+00
7810+00
7815+00
Ramp Control Point
Southern Pacific
GRADING & DRAINAGE PLAN
Roadway - Sta 7800+00 To Sta 7812+00

PHOENIX - CASA GRANDE HIGHWAY
WASHINGTON/JEFFERSON T.I.
MARICOPA COUNTY



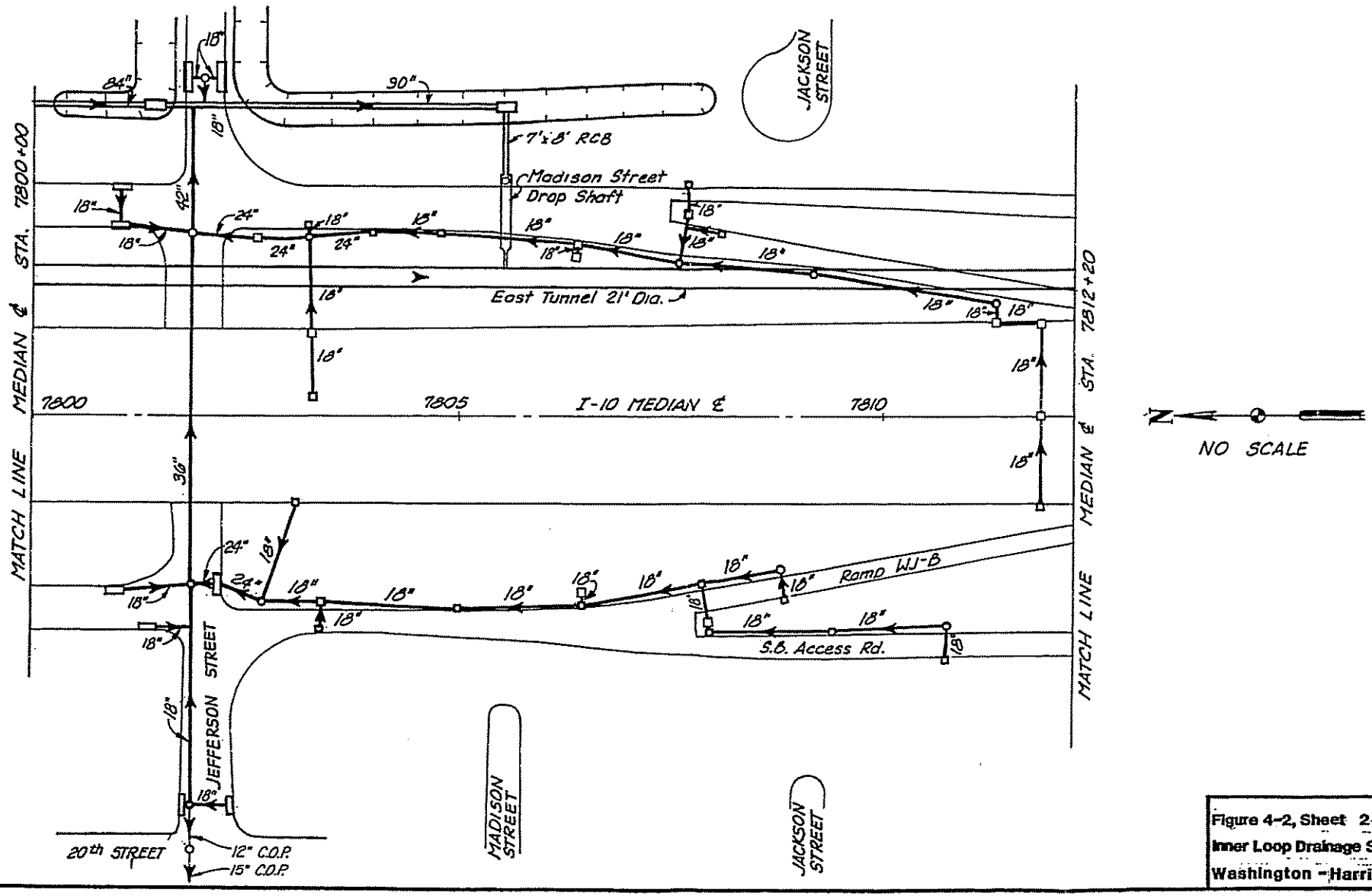
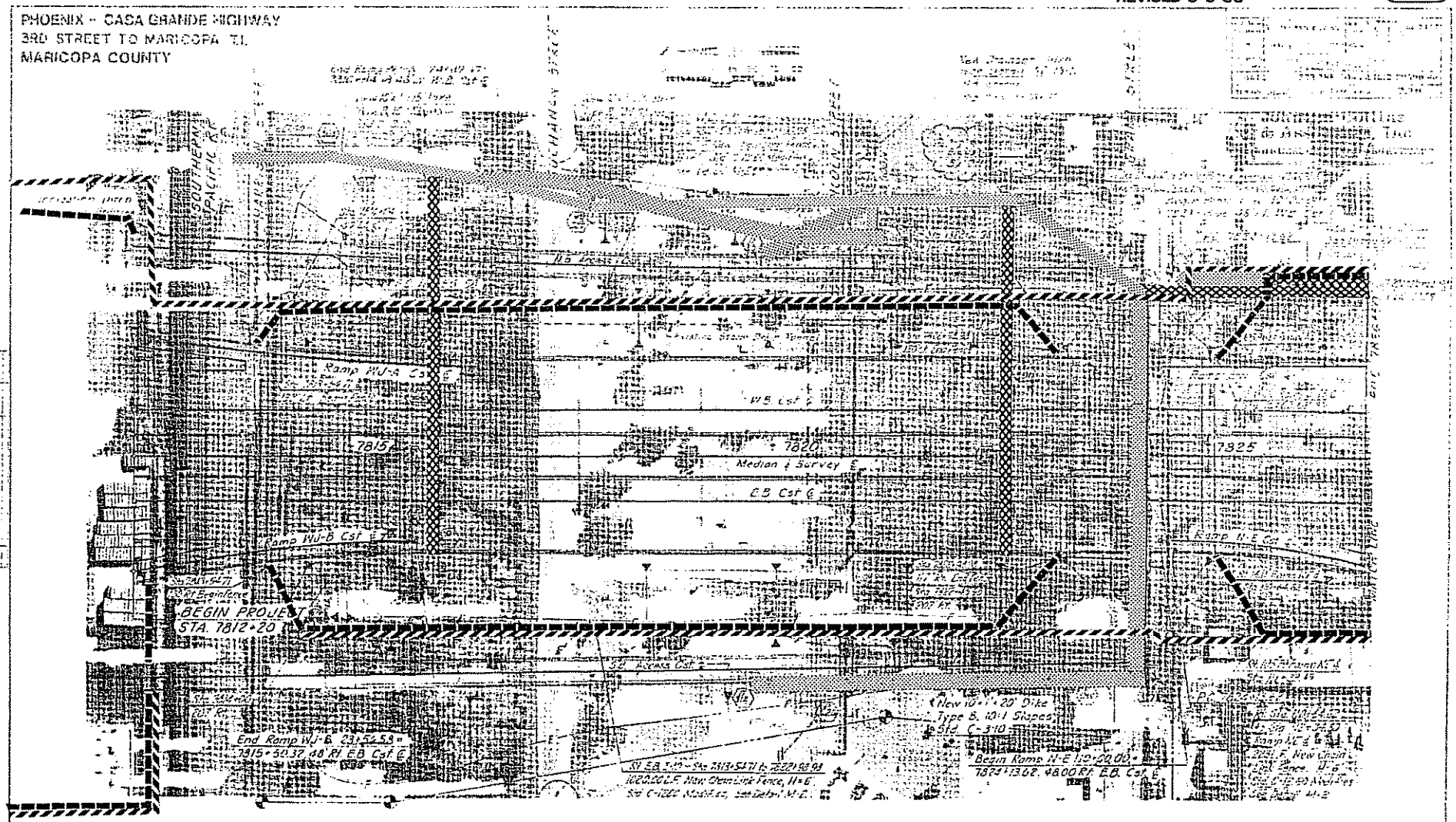


Figure 4-2, Sheet 24
Inner Loop Drainage System
Washington - Harrison St

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY



REVISED-ISSUED FOR CONSTRUCTION

GRADING & DRAINAGE
Sta.7812+20 to Sta.7826+50

I-10-3290iPF

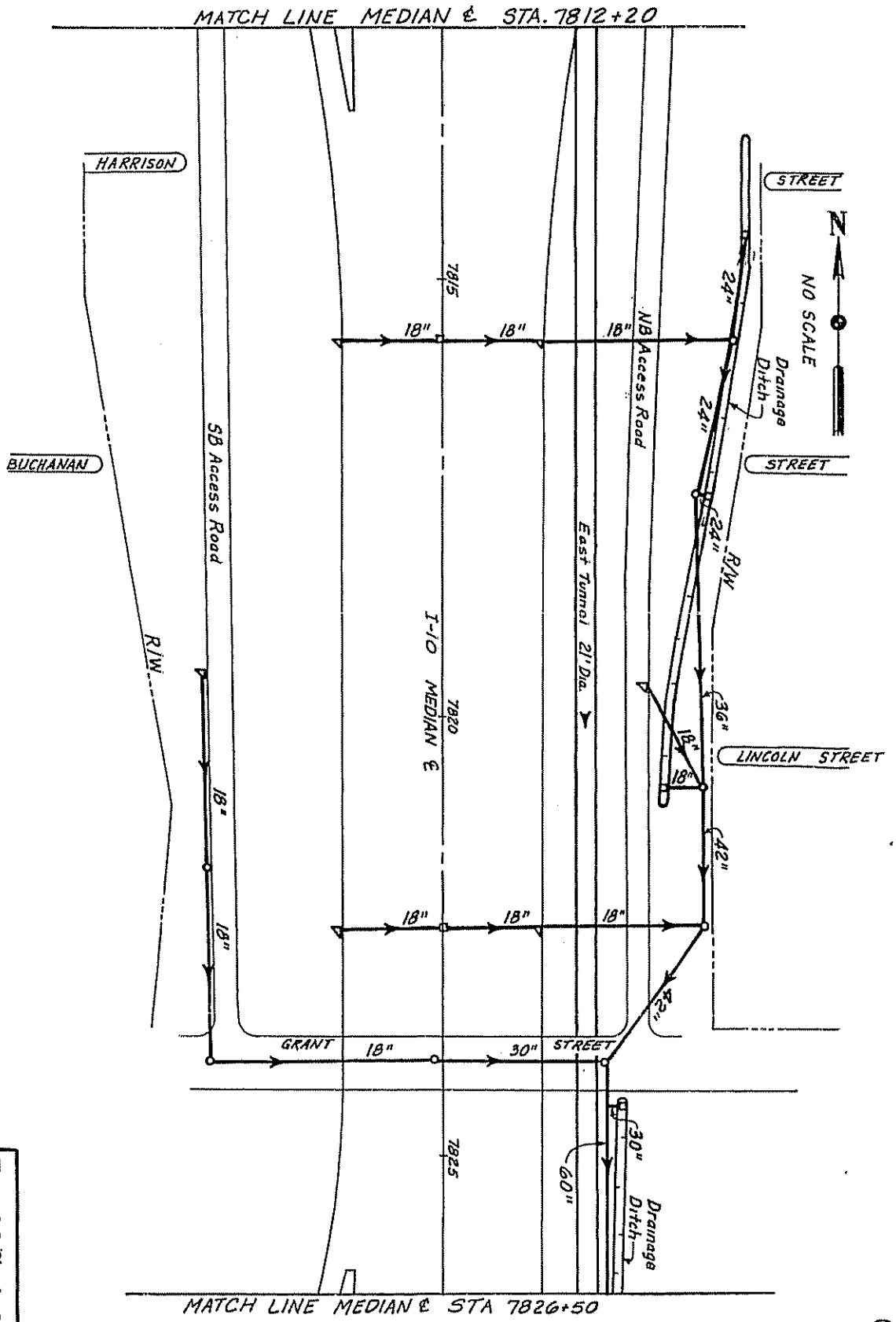
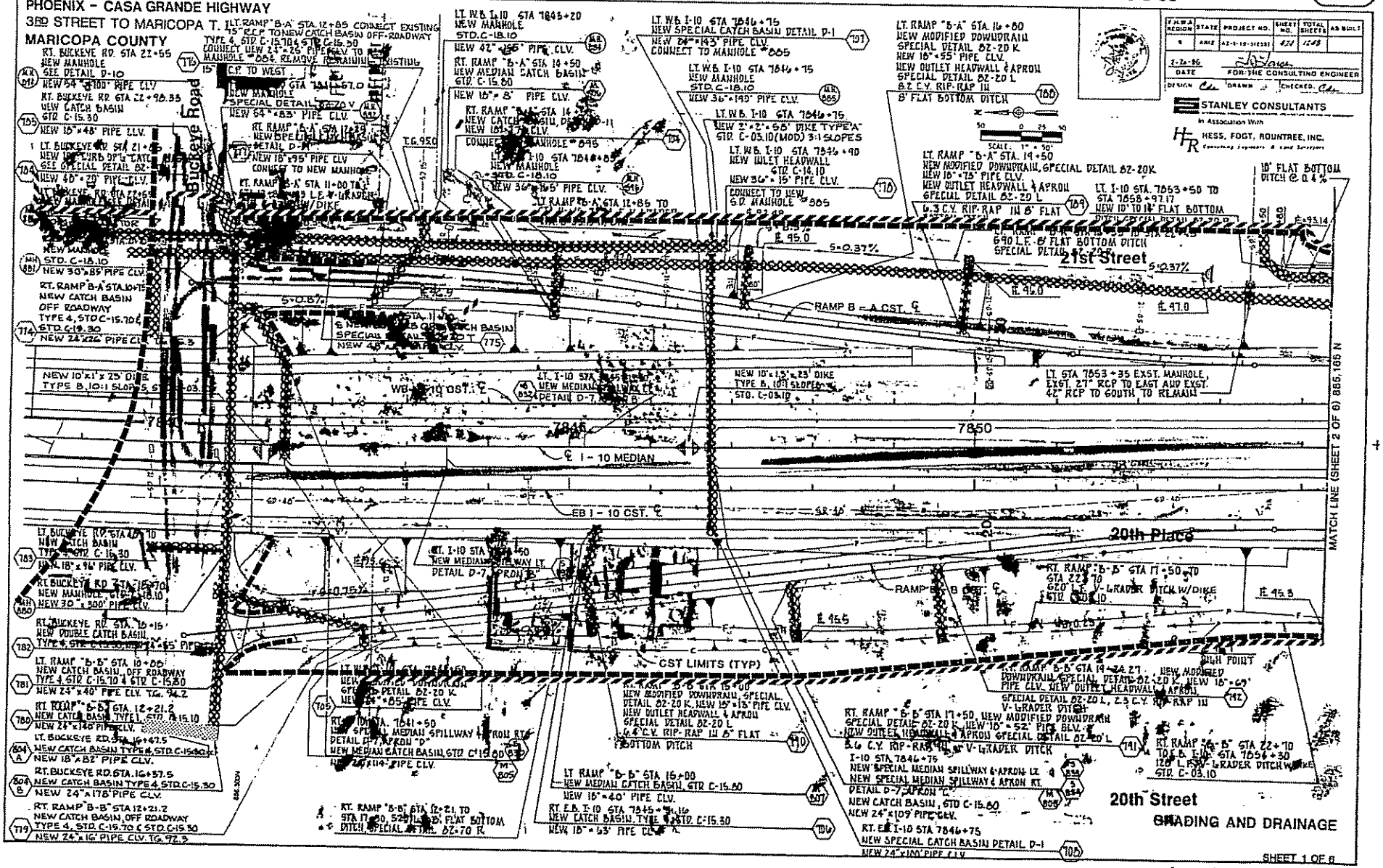


Figure 4-2, Sheet 25
Inner Loop Drainage System
Harrison - Sherman St.

E-11


PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.
MARICOPA COUNTY
REVISED 8-3-93
E-12
STANLEY CONSULTANTS
In Association With
HESS, FOGT, ROUNTREE, INC.
Buckeye Road
21st Street
20th Place
20th Street
RAMP B - A CST.
I - 10 MEDIAN
EB I - 10 CST.
CST LIMITS (TYP)
MATCH LINE (SHEET 2 OF 6) 885,165 N
GRADING AND DRAINAGE
SHEET 1 OF 6
I-10-3 (154) PE
13 OF

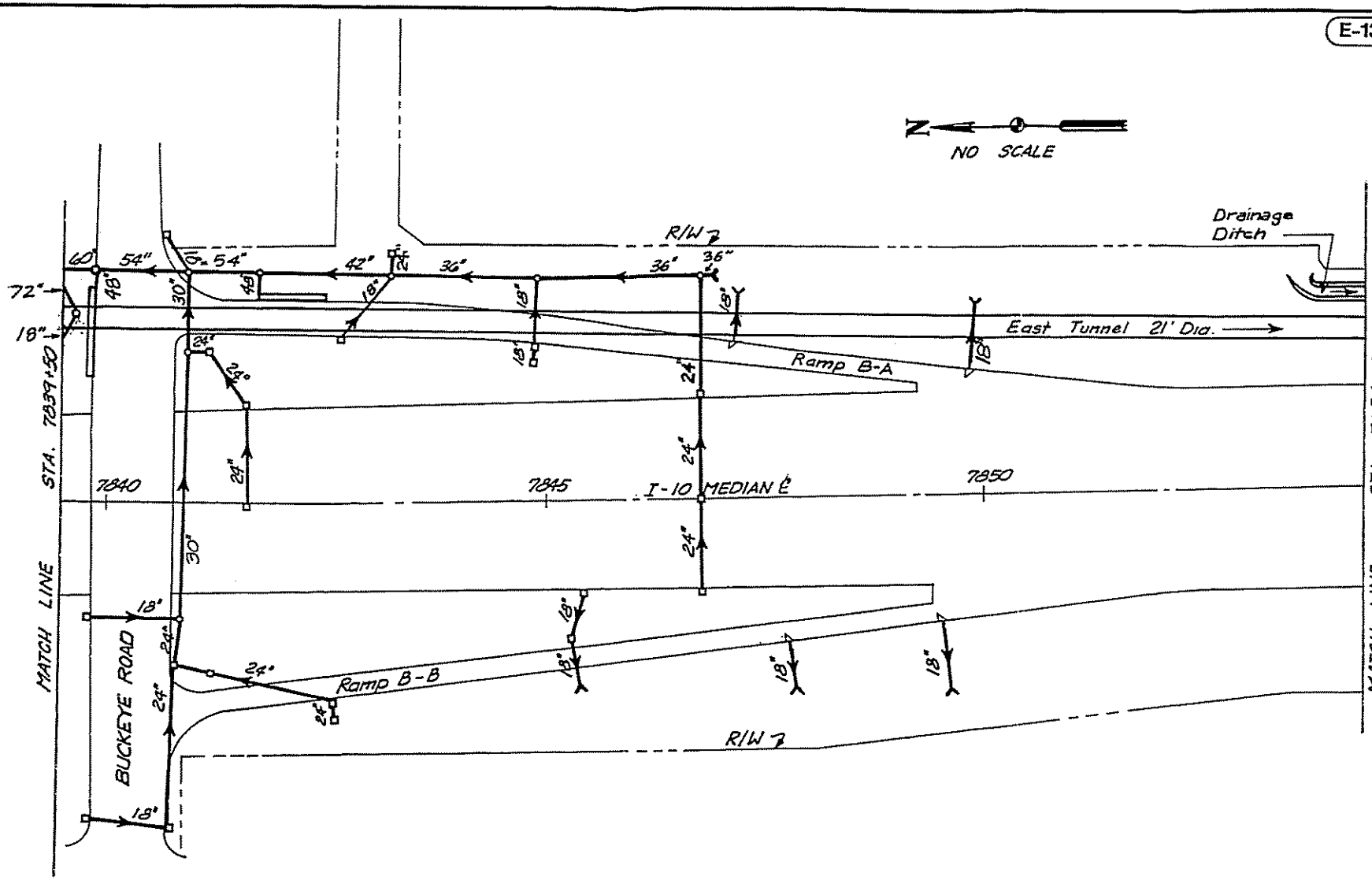
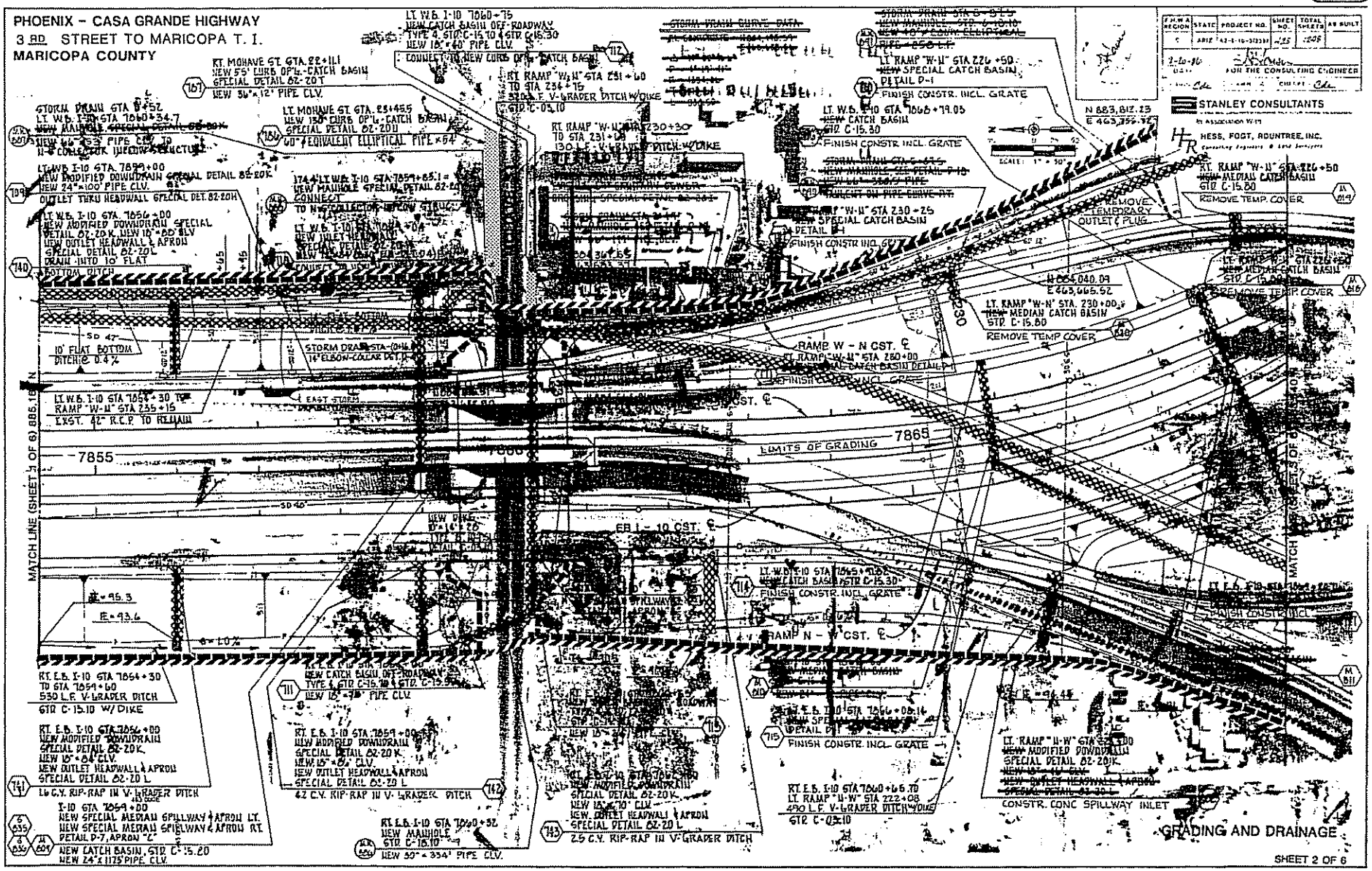


Figure 4-2, Sheet 28
Inner Loop Drainage System
Buckeye Rd - Mohave St.

PHOENIX - CASA GRANDE HIGHWAY
3 RD STREET TO MARICOPA T. I.
MARICOPA COUNTY



GRADING AND DRAINAGE

SHEET 2 OF 6

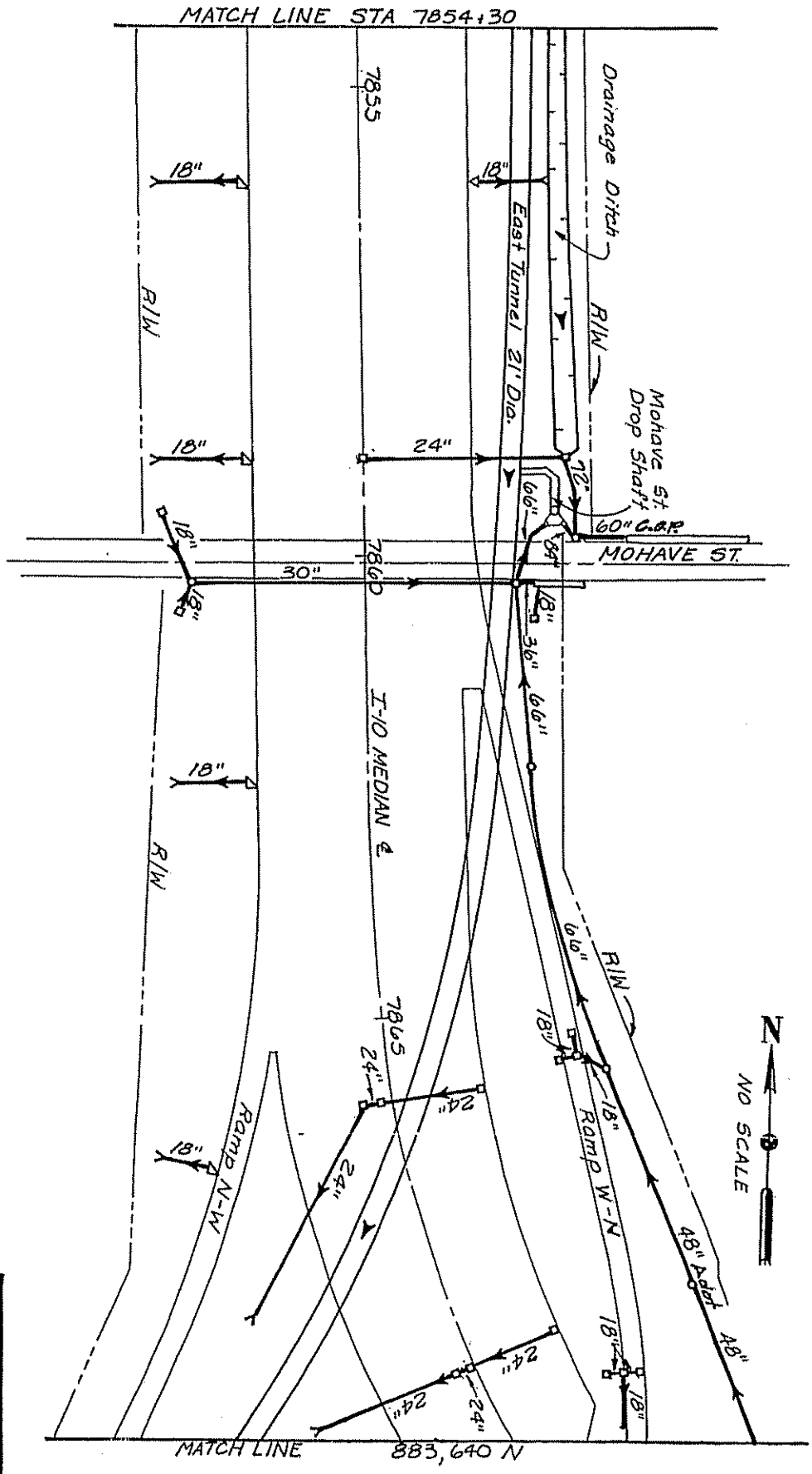
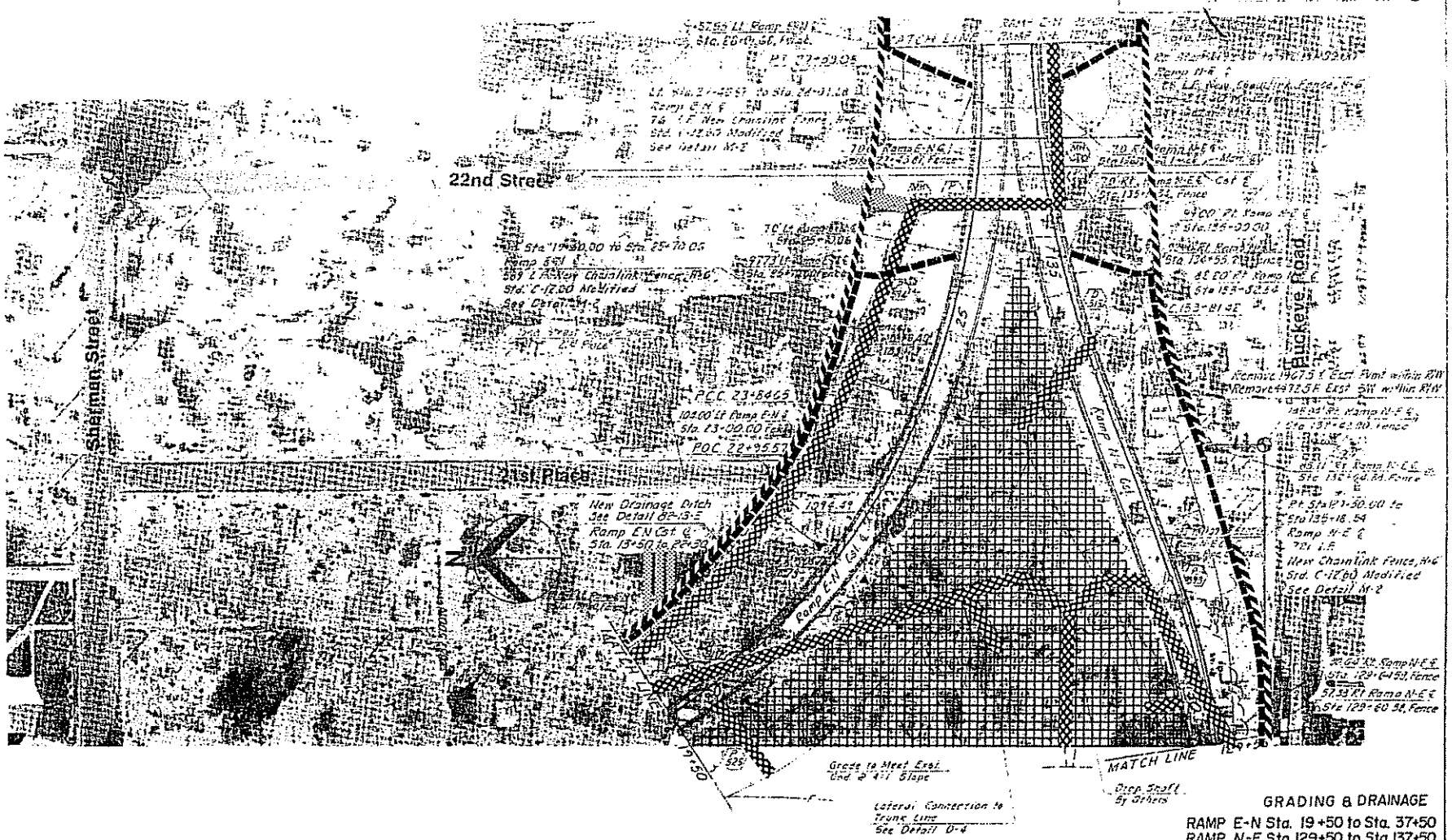


Figure 4-2, Sheet 29
Inner Loop Drainage System
Mohave St. - Maricopa TI

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY

TO ACCOMPANY
CHANGE ORDER NO. _____



GRADING & DRAINAGE
RAMP E-N Sta. 19+50 to Sta. 37+50
RAMP N-E Sta. 129+50 to Sta. 137+50

1-10-3(50)PE

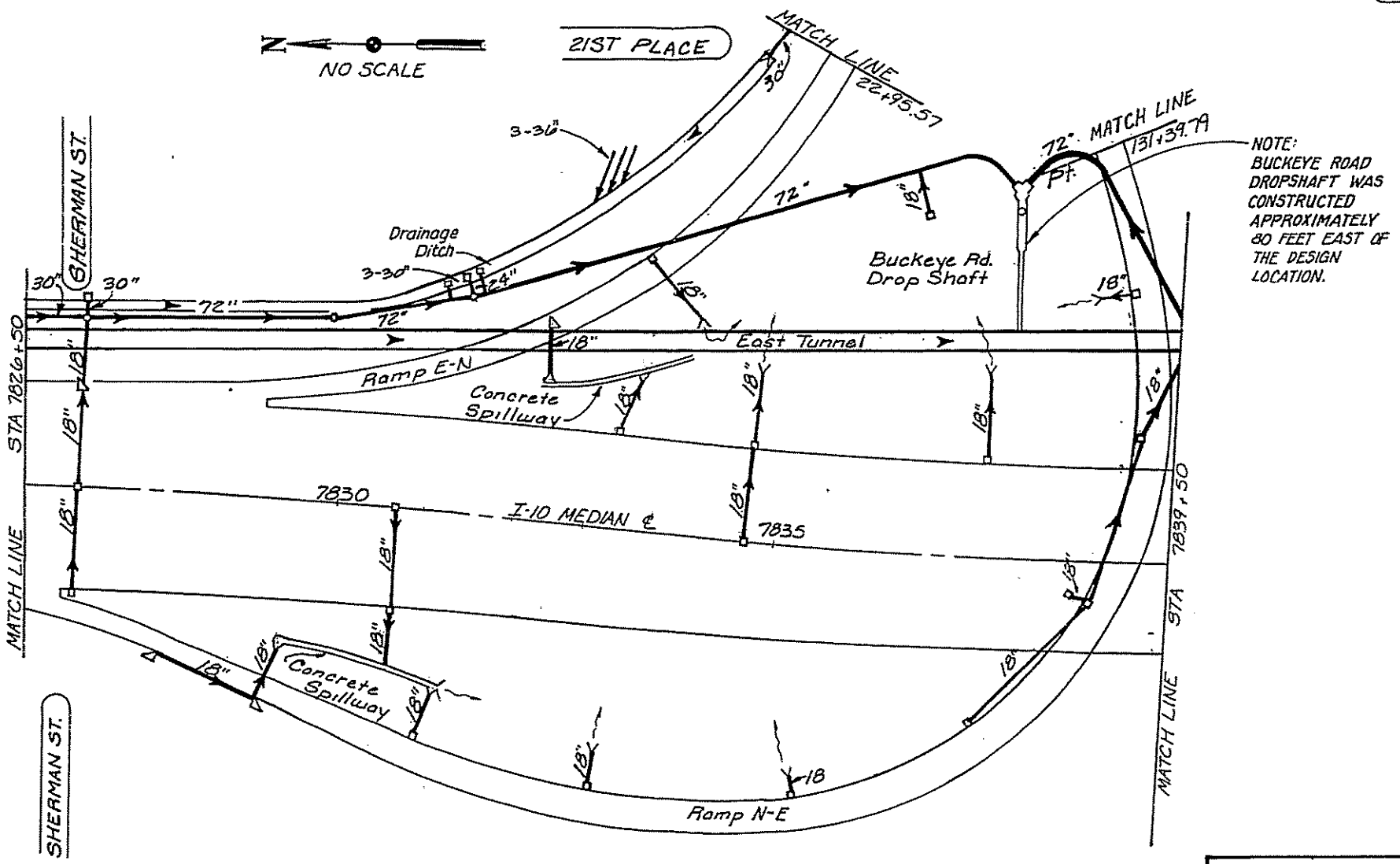
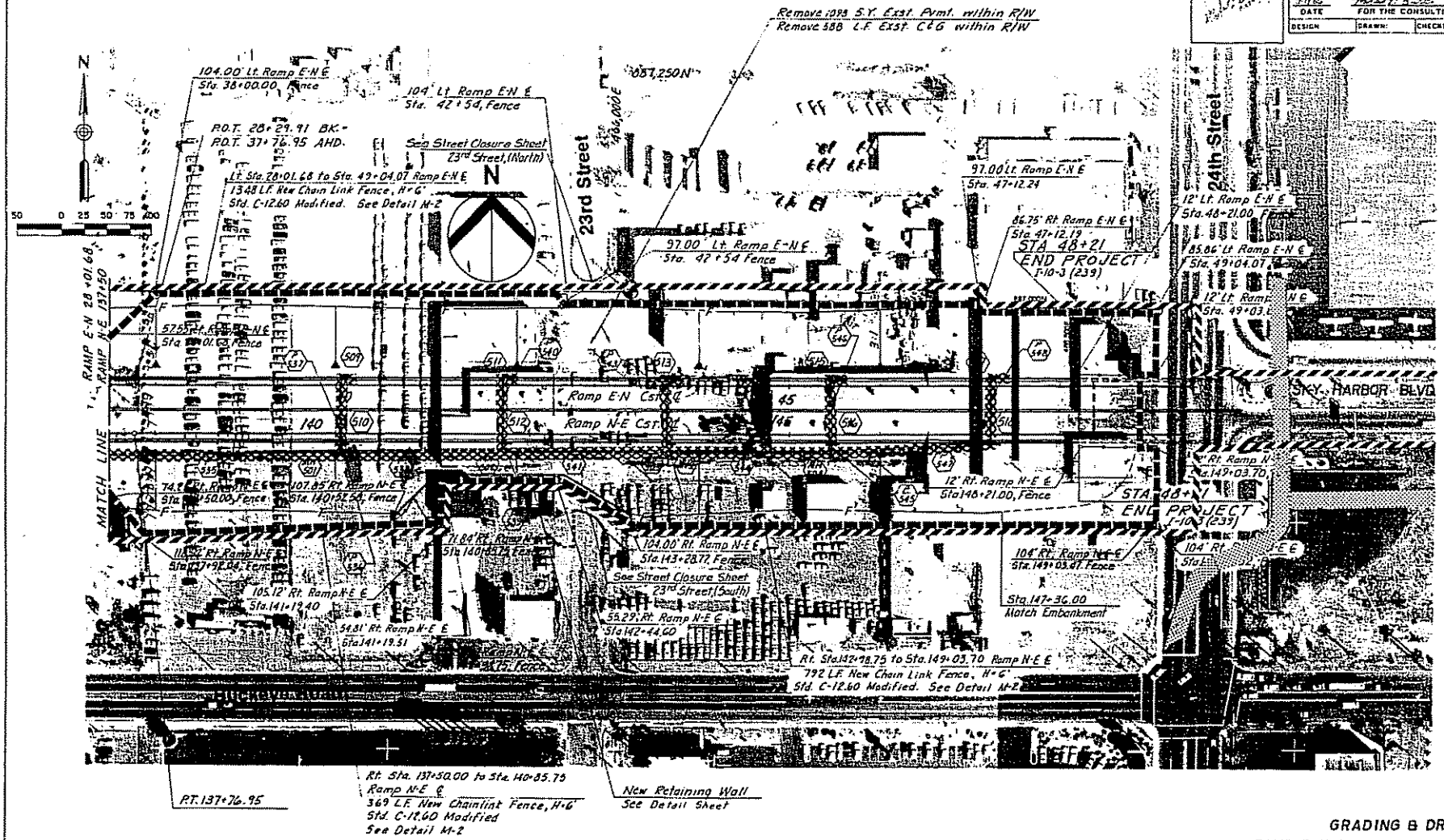


Figure 4-2, Sheet 26
Inner Loop Drainage System
Sherman – Buckeye Rd.

PHOENIX - CASA GRANDE HIGHWAY
3RD STREET TO MARICOPA T.I.
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	[illegible]	433	1244	

DATE — FOR THE CONSULTING ENGINEER
DESIGN — DRAWN: — CHECKED:



GRADING & DRAINAGE
RAMP E-N Sta. 37+50 to Sta. 48+21
RAMP N-E Sta. 137+50 to Sta. 148+21

I-10-3 (150) PE

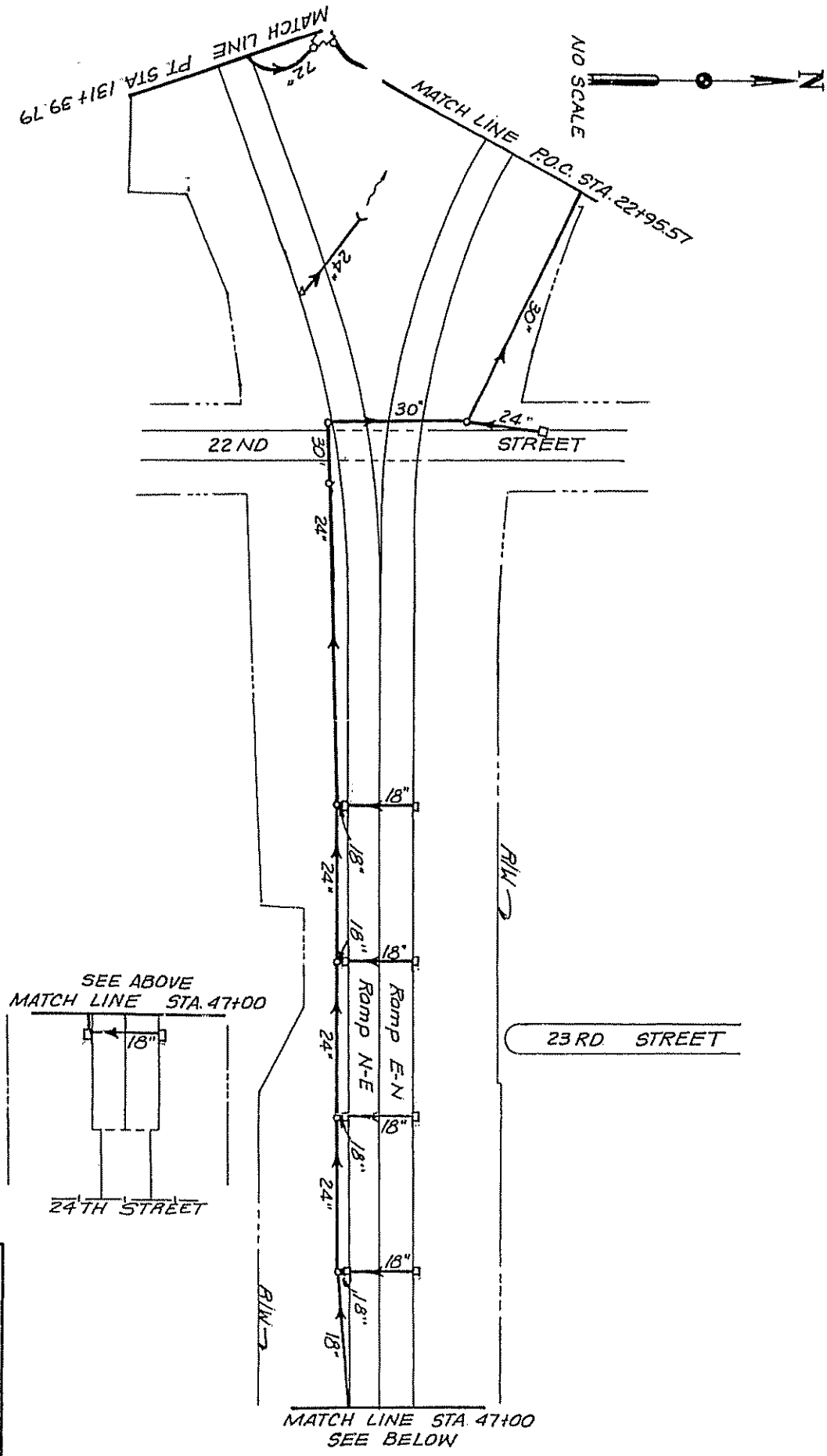


Figure 4-2, Sheet 27
Inner Loop Drainage System
Sky Harbor Access Ramps

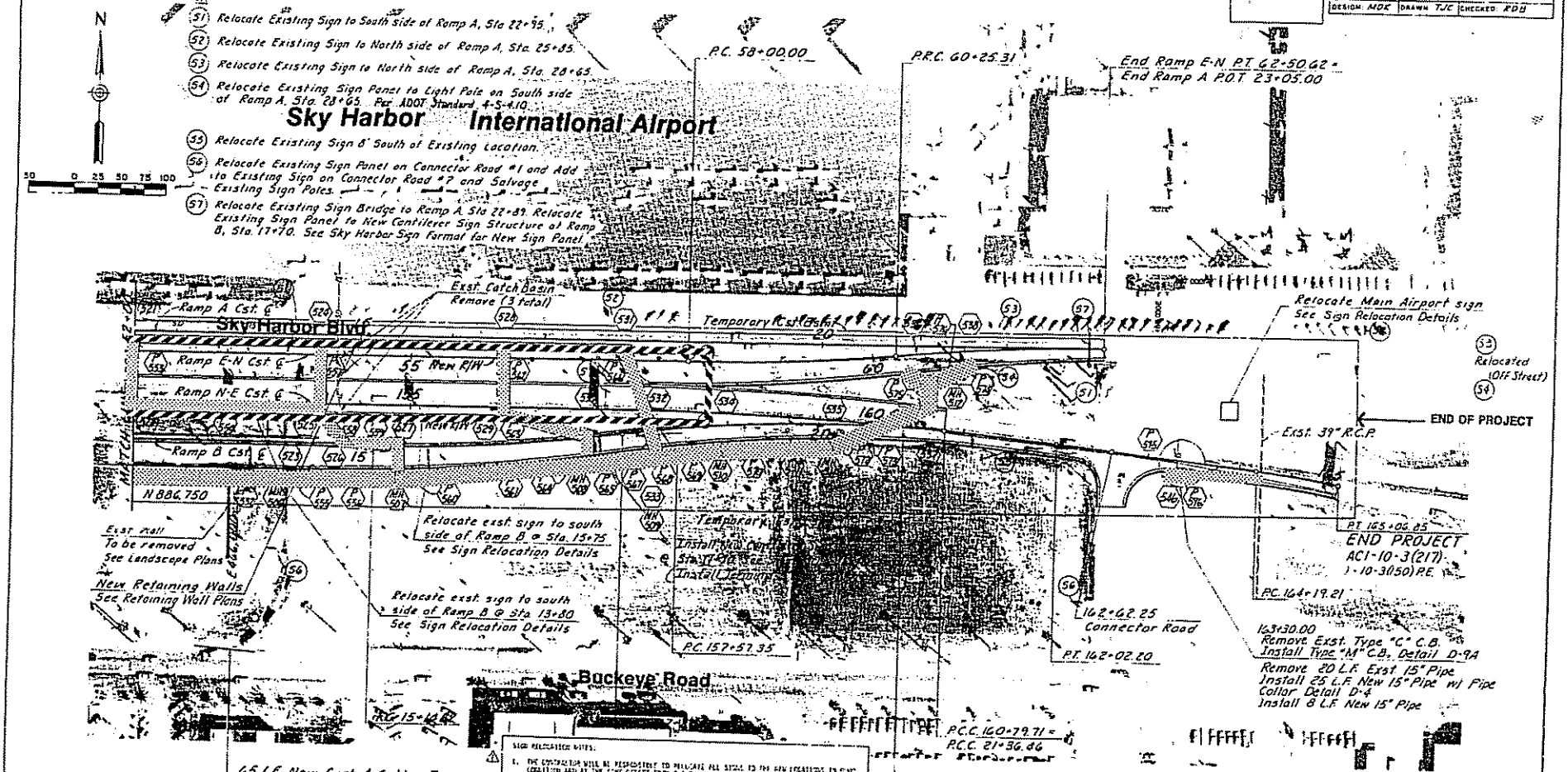
PHOENIX - CASA GRANDE HIGHWAY
SKY HARBOR BLVD.
MARICOPA COUNTY

TO ACCOMPANY ADDENDUM NO. 1

E-20

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	ACI-10-3(217)	45	101	

JOHNSON-COLLINS ASSOC. INC. 12-5-84 DATE FOR THE CONSULTING ENGINEER
DESIGN: MDK DRAWN: TJC CHECKED: RDB



SIGN RELOCATION NOTES:

1. THE CONTRACTOR WILL BE RESPONSIBLE TO RELOCATE ALL SIGNS TO THE NEW LOCATIONS IN GOOD CONDITION AND AT THE SAME OFFSET FROM THE FACE OF CURB AS AT THE ORIGINAL LOCATION.
2. FINAL LOCATION FOR THE RELOCATED SIGNS MAY BE FIELD ADJUSTED BY THE ENGINEER TO AVOID POSSIBLE VISUAL OBSTRUCTIONS.
3. SIGN LOCATIONS ARE TO BE CHECKED BY TRAFFIC DESIGN SERVICES AFTER LOCATIONS ARE STAKED BY THE PROJECT ENGINEER AND BEFORE INFORMATION HAVE BEEN SET.
4. EXISTING REGULATORY SIGNS AT THE INTERSECTION OF CONNECTOR ROAD AT SKY HARBOR BOULEVARD WILL BE RELOCATED BEHIND THE NEW CURB.
5. ALL OTHER EXISTING SIGNS AFFECTED BY CONSTRUCTION OF THIS PROJECT WILL BE SALVAGED AND RETURNED TO THE AIRPORT IN GOOD CONDITION.

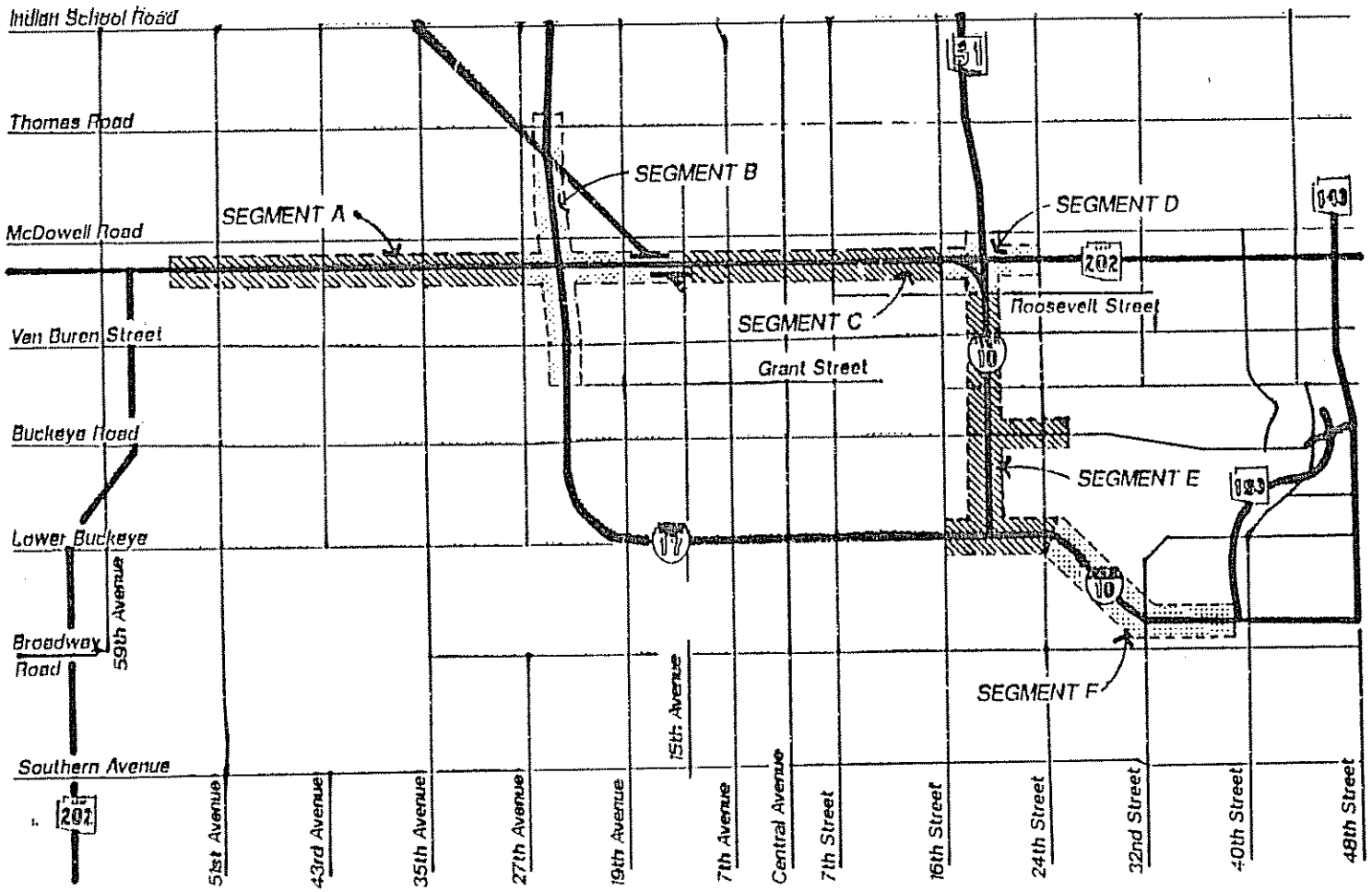
SIGN RELOCATION NOTES (CON'T)

6. FOR DETAIL OF GROUND MOUNTED SIGN FOUNDATION, SEE SHEET 65

GRADING & DRAINAGE

△ 2/26/84 Accommodate Signing Revisions

I-10-3(150)PE



INTERGOVERNMENTAL AGREEMENT

(Drainage Maintenance / I-10 Segments A thru F)

north

SEGMENT DESCRIPTIONS

SEGMENT A	I-10	55th Avenue To 27th Avenue
SEGMENT B	I-10	27th Avenue To 15th Avenue
	I-17	Grant Street To Verde Lane
SEGMENT C	I-10	15th Avenue To 16th Street
SEGMENT D	I-10	Squaw Peak Red Mountain T.I.
SEGMENT E	I-10	Roosevelt Street To 24th Street
SEGMENT F	I-10	24th Street To 40th Street

* NOTE

See the DRAINAGE MAINTENANCE EXHIBITS (Segments A-F) for the exact limits of each segment.

ORDINANCE NO. S21567

AN ORDINANCE AUTHORIZING THE CITY MANAGER TO ENTER INTO AN AGREEMENT WITH THE ARIZONA DEPARTMENT OF TRANSPORTATION; AND DECLARING AN EMERGENCY.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PHOENIX as follows:

SECTION 1. That the City Manager be, and is hereby authorized, to enter into an Agreement with the Arizona Department of Transportation (ADOT) for storm drain maintenance responsibility on certain state highway routes within the City of Phoenix.

SECTION 2. WHEREAS, the immediate operation of the provisions of this ORDINANCE is necessary for the preservation of the public peace, health, and safety, an EMERGENCY is hereby declared to exist, and this ORDINANCE shall be in full force and effect from and after its passage by the Council as required by the City Charter, and is hereby exempted from the referendum clause of said Charter.

PASSED by the Council of the City of Phoenix this 30 day of June, 1993.

MAYOR

ATTEST:

City Clerk

APPROVED AS TO FORM:

ACTING
City Attorney

REVIEWED BY:

City Manager

BPM/pl/2015P
(06/30/93)

ORD NO. 521567

JPA 89-115

APPROVAL OF THE PHOENIX CITY ATTORNEY

I have reviewed the above referenced proposed intergovernmental agreement, between the DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, and the CITY OF PHOENIX, and declare this agreement to be in proper form and within the powers and authority granted to the City under the laws of the State of Arizona and the City Charter.

DATED this 22d day June, 1993.

ACTING
City Attorney

doc.#4

STATE OF ARIZONA

OFFICE OF THE ATTORNEY GENERAL

GRANT WOODS
ATTORNEY GENERAL

1275 WEST WASHINGTON, PHOENIX 85007-2926

MAIN PHONE : 542-5025
TELECOPIER : 542-4085

INTERGOVERNMENTAL AGREEMENT DETERMINATION

A. G. Contract No. KR89-21228TRD, an agreement between public agencies, has been reviewed pursuant to A.R.S. §11-952, as amended, by the undersigned Assistant Attorney General who has determined that it is in the proper form and is within the powers and authority granted to the State of Arizona.

No opinion is expressed as to the authority of the remaining parties, other than the State or its agencies, to enter into said agreement.

DATED this 16th day of August, 1993.

GRANT WOODS
Attorney General

JAMES R. REDPATH
Assistant Attorney General
Transportation Section

8118/